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CONNECTICUT RIVER VALLEY WATER RESOURCES BIBLIOGRAPHY

ASSEMBLED BY THE NEW ENGLAND REGIONAL PLANNING COMMISSION
BOSTON MASSACHUSETTS

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BIBLIOGRAPHY OF REFERENCES

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ORDER OF SUBJECTS

General

Geology

Precipitation

Surface Waters

— Evaporation

Ground Water

Snow Surveys

Pollution

Water Supply

Water Power

Flood Control

Navigation

Population

Sewage Disposal

STATES

Connecticut

Massachusetts

New England

New Hampshire

Vermont

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D. J. 100. 1/1/52

SOURCES OF MATERIAL

- A. Connecticut State Water Commission,
Hartford, Connecticut.
- B. New England Regional Planning Commission,
Boston, Massachusetts.
- C. Massachusetts State Library,
Boston, Massachusetts.
- D. Engineering Societies Library,
Boston, Massachusetts.
- E. Billings Library,
Montpelier, Vermont.
- F. Vermont State Planning Board,
Montpelier, Vermont.
- G. Vermont State Library,
Montpelier, Vermont.
- H. Vermont Public Library,
Montpelier, Vermont.
- K. Vermont Historical Library,
Montpelier, Vermont.
- L. Proprietors of the Locks and Canals,
Lowell, Massachusetts.
- M. Harvard City Planning Library

BIBLIOGRAPHIES AND INDEXES

General

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Boston Society of Civil Engineers, Journal - (Jrnl. B.S.C.E.) - Indexed annually.

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Geology and Ground Water Supplies - Journal N.E.W.W. Association Vol. 47, 1933 - Page 89.

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Pollution

Stream Pollution, Research in Sewage Chemistry, Sewage Treatment and, -- Sewage Works Journal, Vol. 6, No. 2, March 1934 - Pages 169-207.

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of the United States and the Several States -
Edward M. Douglas - U.S. G.S. Bulletin #817, 1930.

Contents:

Information concerning boundaries, boundary marks,
area (land and water), length of tidal shore, geographic
center, highest, lowest and mean altitudes, etc.

Title: - B.

Connecticut - Facts about Agriculture, Climate, Edu-
cation, Recreation and other Desirable Living condi-
tions - Connecticut State Department of Agriculture.
1933.

Contents:

General Information - P. 2.
Facts about Various Subjects Generalized - P.5-38.
Population of Connecticut Towns - 1930 Census.

Title: - A, C, D, E, G.

Geographic Dictionary of Connecticut - Henry Gannett -
U. S. G. S. Bulletin #117, 1894.

Title: - A.

List of Connecticut Factories and Mechanical
Establishments - Connecticut Factory Inspection
Department.

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Title: - A.

List of Precise Bench Marks, giving locations and
elevations - U. S. G. S. Mimeograph.

CONNECTICUTPRECIPITATION

Title: - C, D, E.

Some Phases of Southern New England Hydrology -
Caleb Mills Saville. Journal N.E.W.W. Assn.
Vol. 48 (1933) Page 363. Hartford Metropolitan
District Water Supply Areas.

Contents:

Study is based on Hartford Water Supply Drainage
Areas.

Rainfall and Drought Studies - P. 364-404

Fluctuation of Rainfall at Various Stations in
Southern New England - Table I

Map Showing Normal Annual Rainfall in Inches for
New England - Plate II

Map Showing Mean Annual Rainfall in Southern New
England - Plate III

General Meteorological Observations - P. 404-408

Statistical Considerations - P. 408

Conclusions - P. 445

(Paper has only general relationship to
Connecticut River Valley).

CONNECTICUTSURFACE WATER

Title: - A

Future Water Supplies of Connecticut - Caleb Mills
Saville - February 1927 (Connecticut Society of
Civil Engineers)

Title: - A

Report on Water Resources of Connecticut -
Connecticut State Water Commission.

Title: - A

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Suttie. Connecticut State Geological and Natural
History Survey.

CONNECTICUTGROUND WATER

Title: - A, C, D, E, G.

Ground Water in the Hartford, (and other) Areas in
Connecticut - Herbert E. Gregory, and Arthur J.
Ellis. U.S.G.S. Water Supply Paper #374, 1916

Contents:

General Information on Ground Water - P. 9-43
Hartford Area - P. 46-51
West Hartford Area - P. 52-58
Newington Area - P. 59-64
Wethersfield Area - P. 64-67
East Hartford Area - P. 68-72
Manchester Area - P. 72-78
South Windsor Area - P. 78-82
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Windsor Area - P. 87-90
Bloomfield Area - P. 90-94
Saybrook Area - P. 133-136
Essex Area - P. 136-139
Westbrook Area - P. 139-142
Old Lyme Area - P. 142-146

Maps in Pocket:

Hartford Area
Saybrook Area

(Both show rock outcrops, wooded areas,
and ground water conditions)

Title: - A, C, D, E, G.

Ground Water in the Meriden Area, Connecticut -
Gerald A. Waring. USGS Water Supply Paper #449.
1920.

Contents:

Geography - P. 7
Geology - P. 10
Ground Water Supplies - P. 13-16
Well Construction - P. 17
Quality of Ground Water - P. 19
Description of Towns - P. 21

Map of Connecticut showing Physiographic Divisions
and areas covered by water supply papers of USGS.
Map of Meriden Area showing glacial deposits, rock
outcrops, and location of typical wells and springs-
pocket.

Map of Meriden Area, showing bedrock geology and
structure sections, - pocket.

Map of Meriden Area, showing woodlands - pocket.

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Title:- A, C, D, E, G.

Ground Water, in the New Haven Area - John S. Brown,
USGS Water Supply Paper #540, 1928

Contents:

General information on Ground Water - P. 1-52

Durham Area - P. 180-185

Haddam Area - P. 185-192

Maps in pocket:

New Haven area (includes area New Haven to
Connecticut River)

Title:- A, C, D, E, G.

Ground Water in the Norwalk, Suffield, and Gaston-
bury areas. By H.S. Palmer. USGS Water Supply
Paper #470, 1920

Contents:

Source and character of data - P. 9

Geography - Geology - Artesian Conditions -
Quality of ground water for several towns.

Four maps in pocket.

Title:- A, C, D, E, G.

Ground Water in the Pomperaug Basin, Conn., with
special reference to intake and discharge -
O. E. Meinzer and N.D. Stearns. USGS Water Supply
Paper #597-B - 1929

Contents:

Geography - P. 74

Topography and Drainage - P. 75

Geologic Sketch - P. 76

Geologic Formations and their water bearing pro-
perties - P. 79

Tables for daily, monthly and annual discharges
of Pomperaug River at Bennetts Bridge - P. 100-
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Title: - A, C, D, E, G.

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Harold S. Palmer. USGS Water Supply Paper #466, 1921.

Contents:

Geography - P. 10
Topography - P. 10
Geologic History - P. 20
Springs - P. 38
Recovery of Ground Water
Detailed descriptions of towns in area
Three maps in pocket.

Title: - C, D, E, G.

Occurrence of Water in Crystalline Rocks - E.E.Ellis.
USGS Water Supply Paper #160, 1906.

Contents:

Rock types - P. 19
Geologic Sketch - map of Connecticut - P. 20
Water in Crystalline Rocks - P. 21
Wells - P. 23
Tables for Water Supply - P. 25-26

Title: - A, C, D, E, G.

Study of Coastal Plain Ground Water with Special
reference to Connecticut - John S. Brown. USGS
Water Supply Paper #537, 1925.

Contents:

New Haven Coast Description - P. 2-8
Ground Water - General - P. 2-9
Coastal Ground Water - P. 10-83
Contamination of Wells
Nature of Contact of Salt and Fresh Ground Water
Effect of Pumping
Influence of Tides on Ground Water
Seasonal Variations in Salinity
Detailed Description of wells, springs, etc. on
New Haven Coast.

CONNECTICUTGROUND WATER (Cont.)

Title: - A, C, D, E, G.

Underground Water Resources of Connecticut - Herbert E. Gregory. USGS Water Supply Paper #232, 1909. (Includes "Study of the Occurrence of Water in Crystalline Rocks of Connecticut" - E.E.Ellis).

Contents:

Geography - P. 11-30
 Topography, drainage, forests, climate, surface water supply, population and industries.
 Geology - P. 31-43
 Outline of Geologic History - P. 31
 Description Geology - P. 34
 Crystalline Rocks, Triassic Sandstone and Trap, Pleistocene Drift.
 Occurrence and recovery of ground-water - P. 44
 Circulation of ground-water - General amount and temperature of ground water contamination
 Ground-water in Crystalline Rocks - E.E.Ellis - P. 54-103
 Ground Water in Triassic Sandstones and Traps - P. 104-137
 Water in the Glacial Drift - P. 138-156
 Water Supply of Typical Areas - P. 157-164
 Warren, North Haren, Branford Point
 Character of Ground Water in Connecticut - P. 165-179
 Wells and Springs - P. 180-195
 Bibliography - P. 196

CONNECTICUTWATER SUPPLY

Title: - A

Annual Report of Department of Public Health for year ending June 30, 1934. Conn. Public Doc. #25

Contents:

Chemical Analysis of Water Supplies - P. 158
 Treatment of Water Supplies - P. 283-285, 288
 Sewage Treatment - P. 294
 Proposed Treatment Plants - P. 297

CONNECTICUTWATER SUPPLY (cont.)Title: - A

Future Water Supplies of Connecticut - Caleb Mills
Saville - February 1927 (Conn. Society of Civil En-
gineers)

Title: - A

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Scott and F. A. O. Almquist. Journal N.E.W.W.
Assn.

Title: - A, B

Twenty-Third Annual Report of the Public Utilities
Commission, Connecticut Public Doc. #56, Sept. 30,
1934.

Contents:

Capacity & Service of Water Companies at Dec. 31,
1933 - P. 589-610

(Chiefly financial in relation to Public Utilities)

Title: - A, B

Twenty-Fourth Annual Report of the Public Utilities
Commission, Connecticut Public Document #56,
Sept. 30, 1935

Contents:

Capacity & Service of Water Companies at Dec. 31,
1934 - P. 586-607

(Chiefly Financial in Relation to Public Utilities)

CONNECTICUTPOLLUTIONTitle: - A

An Act creating the State Water Commission and certain other Acts bearing on Pollution of Waterways -
Revised July 1, 1935

Title: - A, B

Annual Report of Department of Public Health for
Year Ending June 30, 1934. Connecticut Public
Doc. #25

Contents:

Chemical analysis of water supplies - P. 158
Treatment of water supplies - P. 283, 285, 288
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Title: - A

Biennial Reports of Connecticut State Water
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Title: - A, B

Biennial Report of Connecticut State Water Com-
mission - (Fifth) 1932-34

Contents:

Present Treatment of Sewage Problem - P. 20, 21
Analysis of River Water 1933 - P. 25, 27
Projected Treatment at Middletown - P. 30
Projected Treatment at Thompsonville - P. 32
Recommended Treatment of Trade Wastes - P. 42-45
Recommended Treatment of Metallurgical Wastes -
P. 51-59
Discharge Data - P. 68, 69

Title: - A

Biennial Reports of Industrial Wastes Board-
First and second vols. I & II, 1918-1921.

CONNECTICUTPOLLUTION (cont.)Title: - B

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Subject:

Listed by Towns and Cities.

Title: - A

Law of Connecticut in regard to the Pollution of Waters - Lewis Sperry - March, 1914

Title: - A

Report of Commission to Investigate the Pollution of Streams to the General Assembly- January session 1923

Title: - B

Watershed Pollution Study - F.E.R.A. Project CPS-F2-90 - December 1, 1934. Connecticut State Planning Board.

Contents:

General description of the Connecticut River - P.7
 Pollution Sources - P. 8
 Distribution of Pollution - P. 9
 Channel for Navigation - P.9
 Sewage and its Disposal - P. 17
 Industrial Wastes - P. 22-41
 Watershed Conditions discussed by towns - P. 43-75
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 Oil Pollution - P. 139
 Flood Damage - P. 140-143
 Summary of Findings - P. 149-150
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 Standard PH Scale - P. B1
 PH Values of Industrial Wastes - P. B2-B6
 Map of Natural Watershed - P. D
 Map of Waste Disposal - P. E
 Map of Water Supplies - P. F

(Excellent Studies)

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Work of Connecticut State Water Commission-
William S. Wise, January, 1932

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Title: - A

Annual Report of Department of Public Health for
year ending June 30, 1934. Conn. Public
Doc. #25.

Contents:

Chemical Analysis of Water Supplies - P. 158
Treatment of Water Supplies - P. 283-285, 288
Sewage Treatment - P. 294
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CONNECTICUTFLOOD CONTROLTitle: - A

Laws and Rules Regarding Inspection of Dams - 1928
Connecticut Board of Civil Engineers.

Title: - D

Protection of Hartford South Meadows, at Hartford,
Connecticut - A Symposium - Roscoe N. Clark,
Journal B.S.C.E. - vol. 20 - Nov. 1933 - P. 187.

Contents:

Location - P. 187
Historical - P. 188
Extreme Floods - P. 189
Typical cross-section of dyke across Connecticut
River - P. 194
Purpose and scheme of operating - P. 204.
Gages used - P. 215

Title: - B.

Report of City Engineer F. L. Ford of Hartford on
East Side Flood Protection - Oct. 12, 1908

Contents:

History of Disposal of Drainage into Connecticut
River and Dyke Construction at Hartford.
Daily Gage Heights of Connecticut River at Hart-
ford from Feb. 8, 1896 to Dec. 31, 1907 -
Maximum, average and minimum values - P. 64-65
Rainfall and Runoff during Flood of April 6-8,
1901 - at Hartford - Plate I

CONNECTICUTNAVIGATIONTitle: - B, C

Connecticut River below Hartford, Connecticut,
Federal House Doc. #49. Report on River and
Harbor Act of July 3, 1930, dated December 22,
1932.

Contents:

Description of River - P. 2,6,14,15,23
Plan of New Improvements to Channel -
P. 2,3,4,18
Traffic and Commerce - P. 2,4,9,10,19,20,21,24
Flood Flows and Tides - P. 6,7,11,15,22
Ice - P. 7,16
Earlier Improvements to Channel - P. 7,8,17
Industries - P. 8,16
Survey of Waterway - P. 10,21
Bridges - P. 17
Prior Reports - P. 17
Ponding - P. 10, 11, 22

Plans:

Plan of river below Hartford showing conditions
before alterations. U.S. Engineers' Office,
Providence, Rhode Island, January 15, 1931.

Title: - B, C

Harbor and River Improvement in New England.
Annual Report for 1933, Part II, Chief Engineers
U.S.Army, Copy filed with N.E.R.P.C.

Contents:

Connecticut River below Hartford - P. 10 of copy.

MASSACHUSETTSGENERAL

Title: - B, C.

Connecticut Valley Special Park Commission Report -
Massachusetts House Document #1330, Feb. 1924.

Contents:

Description of Connecticut River Valley - P. 3
Population Distribution - P. 4
Assessed Valuation of Towns & Cities - P. 5
Land Reclamation - P. 6
Erosion of River Banks - P. 11
Sewage Pollution - P. 11, 12
Forest Reserves - P. 15
Rainfall - P. 16

Title: - C.

Report of the Special Commission Directed to Study
the Use of Certain Lands and Waters in the Common-
wealth for Recreational Purposes - Massachusetts
House Document #1300, 1934.

Contents:

Number and Area of Great Ponds and Reservoirs in the
Various Counties of the State - P. 11-111.

MASSACHUSETTSGEOLOGY

Title: - C, D, E, G.

Geology of Mass. and R. I. - B. K. Emerson U.S.G.S.
Bulletin #597, 1917.

Contents:

Physiography - P. 14
Berkshire Hills and Conn. Valley - P. 40-43
Connecticut Valley Lakes - P. 141
Map of Geologic Areas of Mass. and R.I. - 1916
(Considerable detail in geological information)

MASSACHUSETTSGEOLOGY

Title: - C, D, E, G.

Origin and History of the Central Massachusetts Upland. - W. C. Alden. USGS Bulletin 760B, 1904.

Contents:

Physical Features of Central Massachusetts P. 13
 Map showing altitude above sea level - P 17
 Relations of the topography to the Rock formations - P. 27
 Geological Analysis of Changes in Elevation of Central Massachusetts - P. 59
 A tabulation of summary of glacial history in Central Massachusetts - P. 92

MASSACHUSETTSPRECIPITATION

Title: - D.

Estimating Runoff Capacities of Watersheds - Public Works Journal - vol. 66 - March 1934 - P. 13

Contents:

Graph showing annual precipitation at Boston and vicinity for 183 yrs. - 1750-1932 incl. - P. 13
 Graph showing 5 yr. and 20 yr. running average of rainfall at Amherst, Mass. - P. 14
 Discussion and statements pertaining to causes and remedies - P. 14

Title: - C, D, E.

Holyoke Water Works, its Rainfall and Stream Flow Measurements - P. S. Lucey - Journal N.E.W.W. Assn. Vol. 34, 1920, P. 323

Contents:

Discussion of Various Systems Used P. 324-326
 Rainfall - P.330
 Tables and charts showing mean monthly charts for period 1897-1919 - P. 345-347

MASSACHUSETTSSURFACE WATERSTitle: - D.

Estimating Runoff Capacities of Watersheds - Public Works
Journal - Vol. 66 - March 1934 - P. 13

Contents:

Graph showing annual precipitation at Boston and vicinity
for 183 yrs. - 1750 -1932 incl. - P. 13
Graph showing 5 yr. and 20 yr. running average of rainfall
at Amherst, Mass. - P. 14
Discussion and statements pertaining to causes and
remedies - P. 14

Title: - C, D, E.

Rainfall and Stream-Flow Measurements at Holyoke - P.S.
Lucy-Jnl. - N.E.W.W. Assn. Vol. 34, #1 Mar. 1920
P. 323.

Contents:

Discussion in Various Systems used - P. 324-326
Rainfall - P. 330
Table of Monthly Rainfall at Holyoke 1897-1919 - P.332-345

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Stream Gaging Stations in Massachusetts, 1935.
Local Control Survey, WPA Project #428 sponsored by
Mass. Dept. of Public Works.

Contents:

Equipment and Operation of Stream Gaging Stations - P. 2
Collection and compilation of stream flow data - P. 7
Permanent Gage Datum - P. 15
Map of Existing Stream Gaging Stations in Mass. - P. 17
Data of Existing Stream Gaging Stations - P. 19
Stream Gaging Stations at Lowell, Mass. - P. 21
Determination of Elevations at Stations - P. 23
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MASSACHUSETTSSURFACE WATERS (Cont.)

Title: - C, D, E, G.

.. Surface Waters of Massachusetts - Charles H. Pierce, and
Henry J. Dean. U.S.G.S. Water Supply Paper #415, 1916.

Contents:

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Map of Mass. Showing Drainage Basins and Location of Gaging Stations.	

MASSACHUSETTSSURFACE WATERS

Title: - C, D, E, G.

Surface Waters of Massachusetts - Nathan C. Grover
USGS Water Supply Paper #561, 1923

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MASSACHUSETTSPOLLUTION

Title: B, C.

Annual Report of Department of Public Health for
year ending November 30, 1908. Mass. Public Doc. #34

Contents:

Chemical Analysis of Water Sources - P. 204-211
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Title: - B, C.

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Chemical Analyses of Water Sources - P. 118-125
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Sewage Disposal - P. 140-142.
River Pollution - P. 134

Title: - B

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National Resources Board, N.E.R.P.C. - Aug. 31, 1934.
Small Blue Print.

Contents:

Summary of Findings -- Listed by county and town. In-
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Title: - C

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chusetts House Document #402 - 1932.

Contents:

Pollution within Ware River Watershed

MASSACHUSETTSWATER SUPPLYTitle:

Additional Water Supply for Worcester, Mass. Legislative
Report S-346, 1920

Title - C.

Annual Report of Department of Public Health for Year
Ending Nov. 30, 1933 - Mass. Public Doc. #34

Contents:

Chemical analysis of water sources - P. 204-211
Water consumption - P. 215-218
Rainfall - P. 221
River pollution - P. 549

Title: C

Annual Report of Department of Public Health for year
ending Nov. 30, 1933. Mass. Public Doc. #34

Contents:

No Diversion from Ware or Swift Rivers - P. 116
Chemical analyses of water sources - P. 118-125
Water consumption - P. 125
River pollution - P. 134
Sewage pollution - P. 140-142

Title: C

Annual Report of Metropolitan District Water
Supply Commission, Mass. Public Doc. #147,
November 30, 1933.

Contents:

No water diverted during year from Ware R. - P. 26
Progress in Construction of Swift R. Supply - P. 2-3

MASSACHUSETTSWATER SUPPLYTitle: C, D, E.

Boston Metropolitan Water Supply Extension - Karl R. Kennison - Journal N.E.W.W. Assn. Vol. 48, #2 - 1934
Page 147

Contents:

General Description of Water Supply Development
on Water and Swift River Basins - P. 147
Program of New Development on Water and Swift
River Basins - P. 160
Description of the principal construction items - P. 166
Costs and miscellaneous data - P. 205
Bibliography - P. 219

Title: D.

Designed Progress on Construction of Dams for Quabbin
Reservoir - by Stanley M. Dore - Jnl. B.S.C.E. Vol. 22-
No. 3 - July 1935 - P. 151

Contents:

Construction of a reservoir in the valley of the Swift
River - P. 151
Explanatory statements on Stream Control Tunnel - P. 164

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Iodine in the Public Water Supplies of Massachusetts -
H. W. Clark - Journal N.E.W.W. Assn. Vol 42, No. 2,
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Journal N.E.W.W. Assn. Vol. 40, No. 1, 1926 - P. 44

Contents:

Discussion and results of investigations and improvements
of the Metropolitan Water Board - P. 44
History of Metropolitan Supply - P. 65
Capacity of existing sources - P. 66
Life of present supply - P. 69
Possible additions to Metropolitan Water District

MASSACHUSETTSWATER SUPPLYTitle:

Massachusetts Water Supply Statistics 1930. Mass.
Dept. of Public Health

Title:

Rating of the Qualities of Water Supplies in Massachusetts.
Jnl. N.E.W.W. Assn. Vol. 36, 1922

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Journal N.E.W.W. Assn. Vol. 38, 1924 - P. 144

Contents:

Statistics by Towns, including ownership, date of
introduction, population served (1920), source,
drainage area, surface area of pond, miles of pipe
services in use, percent metered. etc.

Title:

Water Supply for Boston Metropolitan District. Mass
Legislative Reports H-1724 - 1924; H-900-1926; H-1239-
1927; H-221-1927

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Mass. Legislative Report H-1550 - 1922

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Title: - C.

Report of Commission of Waterways and Public Lands
on Water Resources of Massachusetts. Massachusetts
Senate Document #289, 1918.

Contents:

Potential Water Power - P. 10-16
Storage - P. 16-18
Rainfall and Runoff, - P. 20-27
Watershed of Connecticut River - P. 31

Title: (Senate Document #289, 1918)

Connecticut River Description - P. 54
 Surveys and their Publications - P. 55
 General Notes - P. 56-60
 Water Power at Holyoke - P. 60-65
 Water Power at Turners Falls - P. 65-69
 Storage on Connecticut River Basin - P. 69
 Connecticut River Profile - P. 70-72
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 Cities and Towns on Watershed - P. 73
 Water Power - P. 74-75, 92-95
 Storage-- Actual and Proposed - P. 77-91
 Hydrographs - P. 96
 River Profile - P. 96
 Map of Storage and Power Studies - P. 96
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MASSACHUSETTSWATER POWER (Cont'd.)

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 Lakes and Ponds on River - P. 152
 List of Lakes and Ponds of the State, with Areas of ten
 or more acres - by counties - P. 191-337
 Stream Flow Records of Conn. River and its tributaries -
 P. 349 on.

(Excellent Paper)

Title: - C

Report of Special Commission to Investigate
 Water Resources of the Commonwealth of Massachusetts.
 Senate Document #298, 1919

Contents:

Water Resources of the State - P. 5-7
 Water Power - P. 5-12
 Existing Law Regarding Storage - P. 12-14

Title: - C.

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 and Equalizing the Flow in the Rivers and Natural
 Streams of the Commonwealth of Massachusetts.
 House Document #1725 - 1915.

Contents:

New England Water Power Used and Owned by Manufacturers -
 1910. - P. 20

MASSACHUSETTSWATER POWER (cont'd.)

Massachusetts Water Power Used and Owned by
Manufacturers, 1870-1910 - P. 20
Developed Water Powers in Mass. - P. 23-25
Fresnet and Storage Losses - P. 29-30
Water for Manufacturing Processes - P.30-32
Municipal Water Supply - P. 32-35
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Storage Possibilities - P. 38-42

(Information generalized)

MASSACHUSETTSFLOOD CONTROLTitle: - A

Connecticut River Flood, Holyoke, Massachusetts
November 5 - 6, 1927

Title: - C, D, E, G

Conservation of Water Resources. USGS Water Supply
Paper #234, 1907

Contents:

Diagrams of Flood duration at Holyoke, Mass. - P. 20

Title: - C, D, E, G.

Floods - Conservation of Water Resources - Henry Gannett-
USGS Water Supply Paper #234, 1907.

Contents:

Record of Flood duration at Holyoke, Massachusetts, for
1907 - P. 20

Title: - A

November 5th, 1927 Flood - Turners Falls Power and
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Title: - C, D.

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December 1932 - P. 491

Contents:

Discussion on effect and prevention of floods by X. H.
Goodnough, Weber and Brooks, H. B. Kinnison, Am. Rwy. Eng.
Assoc., Committee of Boston Society of Civil Engineers.

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and Conn. River Valleys from Flood Damage. Mass.
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Report of October 26, 1928.

Contents:

Engineers' Report

General Description - P. 7.

Flood Control - P. 8.

Erosion - P. 9-11.

Erosion Prevention - P. 12-13.

Generalized Data

MASSACHUSETTSNAVIGATION

Title: - C

Bridges in Massachusetts - Massachusetts Legislative
Documents - S-10, 1929; H-180, 1934

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Valley Waterway Board, 1913. Massachusetts Legislation
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Eight separate sheets filed N.E.R.P.C.

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Cost of Water Storage Projects in N. H. - from H. K. Barrows.
Cost of Water Storage Projects in Mass. - from H. K. Barrows.
Proposed Sewerage and Sewage Disposal Projects in Mass.
Proposed Sewerage and Sewage Disposal Projects in Conn.

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Commercial Structure of New England. Domestic.
Commerce Series #26. - Edward F. Gerrish; Part II.

Contents:

Hartford Distributing Area - P.44-46.
Population - P.45,62
Industries - P. 45, 62.
Springfield Distributing Area - P.46-49.
Population - P. 46,64
Industries - P. 47,64
Holyoke Industries - P. 43.
Income by Counties - P.246,247.

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Edwin M. Bacon, S.P. Putnam's Sons, N.Y. - 1906

Contents:

Historical - P. 1-302
Navigation - General - P. 303-344
Topography of River and Valley - P. 345-463
Map of Connecticut River.

(Information mostly historical)

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Connecticut River Watershed. Stream Condition Survey.
Sept. 1934. New England Regional Planning Commission.

Contents:

Maps and diagrams giving population, area, sewage and
sewage disposal systems of various towns of Connecticut
River Watershed. (Data not complete)

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Forest Cover and the Water Yield - Science - Vol. 78
Supplement P. 6. Aug. 11, 1933.

Contents:

Defining Watershed Protection - P. 6.
General Information - P. 6.
Loss of water through evaporation and Transpiration - P. 6.

Title: - C.

Ground Water and Forest Belt - Karl T. Compton -
Science - Vol. 81. Page 72, 1935.

Contents:

Effects of Cutting Forests - P. 72
Facts pertaining to Natural Resources - P. 72.

Title: - B.

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Part I - H. K. Barrows, Consultant dated Aug. 31, 1934.

Contents:General, Part I.

Physiography - P. 3

Temperature Variations - P. 7, 8, Table II-1, Fig. II-1,
II-2, II-3.

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Precipitation - P.11,13,14,15, Tables III-1, Fig. III-1,
III-3, III-6.

Altitude-Precipitation Gradient - P. 15

Evaporation - P. 16,17,18 Fig. III-A-1, III A-2, III A-3.

Run-Off - P.19,20,21, Fig. IV-1, IV-2, IV-3, IV-12,
Table IV-1.

Flow Duration Curves, - P.21, Fig. IV-6, IV-12

Quality of Water - P. 33

Quality of Surface Waters, Part I

Connecticut River Basin - P.2

Title: - B.

North Atlantic District Report Upon Water Resources,
Part II - H. K. Barrows, Consultant dated Oct. 1, 1934

Contents:Present Utilization of Water Resources - Part II

Power Developments - P. 9,10, Fig. II-1, II-5, II-7
(Conn. R. Profile)

Floods & Flood Protection - P.19, 24

River Pollution - P. 40, Fig. VIII-1, VIII-2, Table VIII-1,
Sheet 2

Storage Reservoirs - P.46,47,48, Fig. IX-1, Tables IX-1
IX-3

Public Water Supply, Fig. I-1, Table I-1, Sheet 1.

Navigation - Table IV-1, IV-2

Title: - A, C, D, E, G.

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Water Supply Paper #44, 1901

Contents:

Description of Connecticut River - P. 12

Table of Elevations at Various Points - P. 13

Profile of River - Plate II

Title:

Reports on Doc. #308, 69th Congress - Commission on Rivers
and Harbors. Report by U. S. Engineer's Office on all rivers
in separate folders. 1930 and 1931. Also new report now
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Description of Basin
 Navigation
 Flood Control
 Power Development
 Power Undeveloped
 Gaging Stations, Flow Duration Curves and Hydrographs
 Description of dams and dam sites
 Precipitation
 Map of basin with river profiles

Title: - D, E.

Water Resources Inventory Presented by Federal Body -
 Eng. News Record - Vol. 114 - Jan. 31, 1935. P. 169

Contents:

The following subjects are given in detail of inventory study prepared by a committee of National Resources Board.

- a. Precipitation - P. 169
- b. Surface Waters - P. 170
- c. Table showing number of stream-gaging stations in active operation by federal agencies, namely: Geological Survey and Corps of Engineers - P. 170
- d. Water quality - P. 171
- e. Public Water Supply - P. 171
- f. Water conservation by storage - P. 173
- g. Water Committee recommendations - P. 173

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Title: - C, D, E.

Comparison between Rainfall and Runoff in Northeastern United States. - J. C. Hoyt. Trans. A.S.C.E. Vol. 59, 1907, P. 470.

Title: - C, D, E.

Comparison of Methods for Determining Areal Mean Precipitation on Drainage Areas - John B. Belknap. Journal N.E.W.W. Association - Vol. 46, 1932, P. 272

Contents:

Methods in use - P. 272
Comparison of Direct Average, weighted average, Thiessen methods on Wachusett catchment area - Charles River Catchment area and Chicopee Catchment area - P. 273-282.

Title: - C, D, E.

Determination of Safe Yield of Underground Reservoir of The Closed - Basin Type - Charles H. Lee - Trans. A.S.C.E. Vol. 87 - 1915 - Page 148

Contents:

General Principles - Page 151
Physical Features - Page 154
Precipitation - Page 164
Evaporation and Transpiration - Page 176

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NEW ENGLANDPRECIPITATIONContents:

Collation of Rainfall Records - P. 2
 Interpolation of Missing Records - P. 4
 Correction for Snow - P. 11
 Critical Examination of Records - P. 17
 Coefficient of Variability of Rainfall - P. 19
 Use of Range Ratio - P. 21
 Calculation of Areal Mean Rainfall - P. 26
 Correction of Rainfall for Elevation - P. 32
 Index Station Method - P. 38
 Roof Effect - P. 39
 References - P. 43

Title: - D, E.

Discussion of the Unit Graph Method of Estimating
 Runoff - Eng. News Rec. - Vol. 109 - Aug. 25, 1932 -
 P. 222-228

Contents:

New flood formulas based on same principle as unit-
 graph by H. K. Barrows - P. 223
 The unit-graph is not constant - by Charles H. Pierce -
 P. 223
 Divergent data needed to study to perfect new method -
 by C.S. Jarvis - P.224
 For peak flows on total runoff, use usual methods -
 by C. E. Grunsky - P. 224
 Studies show unit graph is fundamentally sound -
 by Robert E. Horton - P. 225
 Method is checked by N. E. streams - by Cecil Bolling
 P. 226

Title: - C, D, E.

Drought of 1930-1934. J. C. Hoyt - U.S.G.S. Water Supply
 Paper No. 680

Title: - C, D, E.

Effect of Elevation upon Runoff from Catchment Areas. -
 Allen Hazen. Eng. News Rec. - Vol. 89, 1922, P. 62

Contents:

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Title: -

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Merrill M. Bernard. Trans. A.S.C.E. Vol. 96, 1932
P. 592

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Agriculture - Weather Bureau - Circular B and C.
Instrument Division - 8th edition. 1935

Contents:

Description and make-up of rain gage - P. 13
How to measure rainfall and snowfall - P. 15
How to record and make observation - P. 18
How to formulate precipitation Records - P. 20

Title: - C, D, E.

Measurement of Rainfall and Snow - Robert E. Horton,
Journal N.E.W.W. Assn. Vol. 33, 1919 - P. 14

Contents:

Early Rain Gages and Rainfall Records - P. 15
Distribution of Rainfall Records - P. 18
Various Forms of Rain Gages - P. 18-27
 U. S. Weather Bureau Gage - P. 22
Shielded Rain Gages - P. 28-31
 Height above ground, location etc. - P.20-31, 66, 69
Snowfall Measurement - P. 31
 Uselessness of Rain Gage - P. 31
 A New Snow Sampler - P. 33
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 Measurement of Accumulated Snow - P. 34
 Snow Surveys - P. 35
 Water Equivalent - P. 36

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Rainfall Duration Records - P. 37
 Reading and Inspection of Rain Gages - P. 37-40
 Best size and type of Rain Gage - P. 40-48, 66-67
 Effect of Wind and Exposure on Accuracy of
 Rain Gages - P. 48-54
 Errors in Rainfall Measurement - P. 54-59
 Comparative Rainfall by Adjacent Rain Gages - P. 60-65

(Excellent Paper)

Title: D.

Measuring Rainfall, Runoff, Stream and Storm Water Flow -
 Public Works Journal - Vol. 66 - Sept. 1935 - P. 20

Contents:

Needed rainfall data - P. 20
 Types of rain gages - P. 20
 Measuring Runoff - P. 21
 Measuring storm water flow - P. 21

Title: C, D, E.

Practical Uses of Rainfall Records - L. M. Hastings - Jnl.
 N.E.W.W. Assn. Vol. 33, No. 1, March 1919

Contents:

Map of location of rain gages in 1914 - P. 73
 Method of obtaining records - P. 74
 Diagrams of average monthly rainfall runoff and evaporation
 Sudburg River watershed - P. 77

Title: C, D, E.

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 Vol. 28, 1892, P. 322

Contents:

Information and tables based on rainfall and discharge
 records at various points on Connecticut River basin from
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 Corps.

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Title: - C, D, E.

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Paper No. 1048 - 1907 - P. 458

Contents:

Formulas and diagrams - relative to runoff pertaining to
size and slope of watershed - P. 459-467
Diagrams showing relation of long-time uniform storms to
proposed curves in New York - P. 478
Diagrams explaining intensity of rainfall - P. 485
Table - comparison of results of runoff formulas, etc.,
for area and slopes - P. 489

Title: - C, D, E.

Rainfall and Runoff Studies, by C. E. Grunsky - Trans.
A.S.C.E. Vol. 85, 1922 - P. 66

Contents:

Synopsis - P. 66
Comparisons of rainfall in California - P. 67
Rainfall in the climatic year - P. 76
Normal runoff computed from rainfall records - P. 87

Title: - D.

Rainfall and stream flow Conditions in Southern New York.
Arthur W. Harrington - Journal A.W.W. Association - Vol.
28 No. 1 - January 1936. P. 1

Contents:

Comparison to flood of 1927 in N. E. - P. 1
Precipitation - P. 2
Flood flows - P. 4
Inadequate Gaging - P. 4.

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Title: - C, D, E.

Rainfall Characteristics and their Relation to Soils
and Runoff - C. S. Jarvis - Trans. A.S.C.E. Vol. 95 -
1931 - P. 379

Contents:

Form of data - P. 379
Climatic variations - P. 382
Climatic stability - P. 382
Determinate limits - P. 383
New views of old problems - P. 383
Watershed characteristics - P. 384
Limitations governing atmospheric moisture - P. 385
Tables of - evaporation rates - P. 386
Time element involved in evaporations and condensation - P. 391
Soil Characteristics - P. 393
Application to practical problems - P. 396
Runoff due to thawing - P. 406

Title: - C, D, E.

Rainfall in New England - X. H. Goodnough, Journal
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Contents:

Monthly Records of Rainfall at Various New England Stations -
Total Records to Date, 1913 - P. 275-437

Title: - C, D, E

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N.E.W.W. Assoc. Vol. 35, 1921 - P. 228

Contents:

Monthly Records of Rainfall at Various New England
Stations, Continuing Records given in Vol. 29,
to Date (1920) - P. 231-293

NEW ENGLANDPRECIPITATION

Title: - C, D, E.

Rainfall of New England - Part I. Annual Rainfall -
J. Henry Weber - Journal N.E.W.W. Association - Vol. 42,
1928, P. 137

Contents:

Map - Average Annual Rainfall 1881-1925 - Plate I
Mean Annual Rainfall of Stations in N.E. - Tables P. 139-145
Map - Absolute Maximum Annual Rainfall 1881-1925 - Plate II
Map - Absolute Minimum Annual Rainfall 1881-1925 - Plate III

Title: - C, D, E.

Rainfall of New England - Part II, Seasonal Rainfall. -
Part III, Mean Monthly Rainfall of Southern New England -
J. Henry Weber - Journal N.E.W.W. Assoc. Vol. 42, 1928 -
P. 278

Contents:

Part II, Hydrographs of Monthly Rainfall at Several
Stations - P. 279-282
Maps and Tables showing Mean Seasonal Rainfall in
Southern New England 1881-1925 - P. 285-290
Part III, Maps and Tables showing Mean Monthly Rain-
fall in Southern New England 1881-1925 - P. 292-302

Title: - C, D, E.

Rainfall of New England - Part IV, Minimum and Maximum
Monthly Rainfall in Southern New England - J. Henry Weber,
Journal N.E.W.W. Assoc. Vol. 42, 1928 - P. 414

Contents:

Maps Showing Absolute Maximum Monthly Rainfall for
Southern New England, 1881-1925 - P. 416-421
Maps Showing Absolute Minimum Monthly Rainfall for
Southern New England, 1881-1925 - P. 422-427

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Title: - C, D, E.

Rainfall in N. E. - C. F. Brooks - Jnl. N.E.W.W. Assn.
Vol. 44, #1, March 1930 - P. 1

Contents:

General statements - P. 1
Talk on snowfall in New England - P. 3

Title: - C, D, E.

Rainfall in New England - J. H. Weber - Jnl. N.E.W.W.
Assn. - Vol. 44 - #1 - March 1930 - P. 6

Contents:

Historical Statement - P. 6
Diagram of progressive average rainfall 1814-1925 - P. 14
Map of average annual rainfall 1881-1925 - P. 21
Seasonal rainfall - P. 32
Mean monthly rainfall tables - Mass. R. I., Conn., Vt.,
P. 54-71

Title: - C, D, E

Rainfall in New England - X. H. Goodnough, Journal
N.E.W.W. Assoc. Vol. 44, June 1930. P. 157

Contents:

Monthly Records of Rainfall at Various New England
Stations - Total Records to Date (1928) P. 161-351

Title: - C, D, E, K.

Rainfall in N. E. during the storm of 1927. X. H. Goodnough -
Jnl. N.E.W.W. Assn. Vol 44 - 1930 - Page 119

Contents:

Tables of areas flooded by storm in N.E. - P. 120
Map of total rainfall in 1927 - P. 121
Table of cities and towns flooded in N.E. 1927 - P. 147

NEW ENGLANDPRECIPITATION

Title: - C, D, E.

Rainfall of Northern New England - Gragg Edwards,
Journal N.E.W.W. Assoc. Vol. 42, 1928 - P. 431

Contents:

Maps Showing Mean Seasonal Rainfall in Northern New
England, 1881-1925 - P. 432-433
Maps Showing Mean Monthly Rainfall in Northern New
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Maps Showing Maximum Monthly Rainfall in Northern New
England, 1881-1925 - P. 441-447
Maps Showing Minimum Monthly Rainfall in Northern New
England, 1881-1925 - P. 450-455

Title: - C, D, E.

Rainfall of Northern New England - Gragg Richards - Jnl.
N.E.W.W. Assn. Vol. 44, #1 - March 1930 - P. 77

Contents:

Mean seasonal rainfall with diagrams - P. 74-75
Mean monthly rainfall with diagrams - P. 77-84
Tables of average rainfall for northern N. E. - P. 100

Title: - C, D, E.

Rainfall Studies for New York - S. D. Bleich - Trans. A.S.C.E.
Vol. 100 - 1935 - P. 609

Contents:

Rainfall data and uses - P. 610
Variation of rainfall curves - diagram - P. 618
Probability method - P. 623
Relation between rainfall intensity and frequency - P. 622

Title: - C, D, E, G.

Relation of Rainfall to Runoff - G.W. Rafter - U.S.G.S.
Water Supply Paper #80 - 1903

NEW ENGLANDPRECIPITATIONContents:

Table of average rainfall, runoff and evaporation for storage, growing and replenishing periods of Conn. River from 1872 to 1885. - P. 98

Fitzgeralds' evaporation formula - P. 38-43

Effect of forests on rainfall - P. 53-56

Title - C, D. E.

Relation of Rainfall to Run-off. -

Trans. A.S.C.E. Vol. 77, 1914, P. 346-564

Title: - B, C, D, E, F, G.

Studies of Relations of Rainfall and Run-off in the United States - W.G. Hoyt and others. USGS Water Supply Paper #772, 1936

Contents:

Previous Studies - P.16-19

Precipitation - P. 20-49

Changes, years of high and low, etc.

Changes in temperature - P. 49-58

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Precipitation, Temperature and Run-off, by Basins - P. 60-92

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Basins - P. 92-100

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Stream Flow - P. 111-120

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Surface Run-off - P. 120

Quantitative analysis, unit hydrograph, distribution graph, unit hydrographs and distribution graphs by basins

Unit Hydrograph method and storm transposition in flood problems relating to great storms in the Eastern and Central United States - by Merrill Barnard - P. 218-244

Ground-water Run-off - P. 245-248

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Run-off During Drought Periods - P. 255-257

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 Comparison of Graphs of Minimum Flow - P. 273-275
 Report of Advisory Committee of Section of Hydrology
 of American Geophysical Union - P. 275-282
 References - P. 283-294

(Excellent study for methods, - no data on Connecticut R.)

Title: - A, C, D, E.

The 1929-1930 Drought in N. E. - H. B. Kinnison. Journal
 N.E.W.W. Assoc. Vol. 45, 1931

Contents:

Rainfall for Periods During Seasons of Drought - Table I.
 River Discharge for Yearly Periods During Seasons of Low
 Flow - Table 2
 Comparison of Dry Periods Based on Average Discharge -
 1908-1912, and 1929-1930 - Table 4, Figs. 7, 8
 Yield of Drainage Basins for Driest Periods of Consecutive
 Months. June 1929 to Sept. 1930 - Tab. 5
 Monthly Discharge in Second-feet Per Square Mile for
 1928 and 1929

Title: - D, E.

Unit-Graph - L. K. Sherman - Eng. News Rec. Vol. 108 -
 April 7, 1932 - P. 501

Contents:

The object of the unit graph described, and how used by the
 engineer to construct with reasonable accuracy, the hydrograph
 corresponding to any sequence of daily precipitation records -
 P. 501

NEW ENGLANDPRECIPITATION

Title: - C, G.

Weather Forecasting from Synoptic Charts - US Dept. of
Agriculture. Miscellaneous publication #71
Weather Bureau - 1930.

Contents:

Classification of rainfall - P. 44
Explanatory data on precipitation - P. 45-46

NEW ENGLANDSURFACE WATERS

Title: - C, D, E, G

Accuracy of Stream Measurements - Edward C. Murphy.
U.S.G.S. Water Supply Paper No. 95 - 1904

Contents:

Considerable Discussion on Methods of Stream Measurment
without Ice Cover.
Vertical Velocity Measurements on Ice-Covered Streams.
P. 158-162
(Data refers to New York State Streams)

Title: - C, D, E.

Accuracy of Stream Flow Data. - N. C. Grovers, J. C. Hoyt. -
U.S.G.S. Water Supply Paper #400 - 1916

Contents:

Degree of accuracy required, conditions affecting it, and effect
of inaccuracy of daily records on monthly and yearly means.

Title: - D, E.

A Discussion of the Unit-Graph Method of Estimating Runoff -
Eng. News Rec. Vol. 109 - Aug. 25, 1932 - P. 222-228

Contents:

New flood formulas based on same principle as unit-graph
by H. K. Barrows - P. 223
The Unit-graph is not constant - by Charles H. Pierce - P. 223

NEW ENGLAND

SURFACE WATERS

Contents: (Con't.)

Divergent data needed to study to perfect new method -
by C. S. Jarvis - P. 224
For peak flows on total runoff, use usual methods - by
C. E. Grunsky - P. 224
Studies show unit graph is fundamentally sound - by
Robert E. Horton - P. 225
Method is checked by N. E. Streams - by Cecil Bolling - P. 226

Title: - C, D, E

An Approach to Determinate Stream Flow - Merrill M. Bernard
Trans. A.S.C.E. - Vol. 100 - 1935 - P. 347

Contents:

Basic data - P. 349
Table -- arrangements of data for development of distribution
graphs - P. 351
Watershed factor - P. 355
Reproducing the hydrograph - P. 355
The pluviograph - P. 358

(Excellent paper)

Title: - D, E.

Comparison between Rainfall and Runoff in 'Northeastern'
United States. - John C. Hoyt. - Trans. A.S.C.E., Vol. 59,
1907, P. 431

Title: - C, G.

Current Meter Measurements of Flow Under Ice Cover on
St. Mary's River. - Report of Chief of Engineers, U. S.
War Department, 1897. P. 4092

Contents:

Methods of measurement - P. 4092
Distribution of velocities - P. 4100
Ice Friction - P. 4100
Mean Velocity - P. 4100

NEW ENGLANDSURFACE WATERS

Title: - C, G.

Daily River Stages at River Gage Stations, 1933.
Connecticut River - U. S. Dept. of Agriculture
Vol. 31, 1935 - P. 19

Contents:

Table of daily gage readings - P. 19-20
 Ammonoosuc River at Littleton, N.H. - P. 19
 Farmington River at Collinsville, Conn. P. 19
 Conn. River at Woodsville, N. H. - P. 19
 " " " White River Junction, Vt. - P. 19
 " " " Bellows Falls, Vt. - P. 20
 " " " Holyoke, Mass. - P. 20
 " " " Springfield, Mass. - P. 20
 " " " Hartford, Conn. - P. 20
 River Stations - Description of the above - P. 3
 Length of record
 Elevation of gage zero above mean sea level
 Distance of gage above mouth of river
 Drainage area above gage
 Flood stage
 Highest and lowest stages from gage readings
 Previous publications on same subject 1890-1933 - P. 1

(Excellent Paper)

Title: - D, E.

Depth of Thread of Mean Velocity in Rivers - F.W. Hanna
Eng. News, Vol. 55 - #2 - Jan. 11, 1906 - P. 47

Contents:

Table and formula - P. 47

Title: - D, E.

Depth of Thread of Mean Stream Velocities - C. Swain - Eng.
News - Vol. 55 - #15, April 12, 1906 - P. 417

Contents:

Diagrams illustrating mean velocities in natural and in
artificial streams - P. 417

NEW ENGLANDSURFACE WATERSTitle: - D, E.

Determination of stream flow during the frozen season -
C.R. Adams - Eng. News, Vol. 65 - #5 - 2/2/1911

Contents:

Importance of winter records of stream flow - P. 124
Estimates of stream flow during open season - P. 124
Table - Winter records of stream measurements - P. 124
Experimental data - P. 125
Methods of making winter estimates - P. 126

Title:- C, D, E, G.

Determination of Stream Flow During the Frozen
Season. - H. K. Barrows and R. E. Horton. U. S. G. S.
Water Supply Paper #187. 1907. Also House Doc. #63
59th Congress, 2nd Session, 1907

Contents:

Classification of Winter Conditions - P. 8
Duration of Ice Season - P. 9
Variations in Thickness of Ice Cover - P. 10
Surface, Anchor and Needle Ice - P. 10
Range of Winter Gage Heights - P. 13
Air and Ice Friction - P. 14
Variation in Slope Due to Freezing - P. 17
Change in Area of Waterway - P. 18
Effect of Thickness of Ice on Flow - P. 19
Methods of Obtaining Winter Records - P. 21-26
Winter Records - P. 26-42
Station Rating Curves for Ice Cover - P. 43-46
Vertical Velocity Curves for Ice Cover - P. 46-86

Title: - C, D, E, G.

Effects of Ice on Stream Flow. - William Glenn Hoyt.
U.S.G.S. Water Supply Paper #337. 1913

NEW ENGLANDSURFACE WATERS

Title: - C, D, E, G.

Effects of Ice on Stream Flow. - William Glenn Hoyt.
U.S.G.S. Water Supply Paper #337, 1913

Contents:

Factors that modify winter run-off - P. 9-23
Formation of Ice - P. 24-29
Rate of Growth - P. 26
Duration of Ice Season - P. 26
Effect of Ice on Relation of Stage to Discharge - P. 30-39
The Control Section - P. 30
Surface Ice - P. 31
Fragile Ice - P. 40
Anchor Ice - P. 42
Computation of Flow of Frozen Streams - Methods available -
P. 48-56
Field Methods - P. 57-69
Office Methods - P. 69-73

(Data refers to Mid-Western Rivers)

Title: - C, D, E, G.

Equipment for Current Meter Gaging Stations - G.J. Lyon,
USGS Water Supply Paper #371, 1915

Contents:

Items of equipment - P. 7
Gages - P. 7
Non-recording types - P. 8-13
Recording types - P. 13
Bench Marks - P. 41
Structures used in making discharge measurements - P. 41-61
Cable equipment - P. 42-56
Bridges - P. 57
Boats - P. 59
Stay lines - P. 60
Artificial control - P. 61
(Excellent paper for general information)

NEW ENGLANDSURFACE WATERS

Title: - C, D, E.

Features of Estimating Stream Flow in New England -
H. K. Barrows, - Journal - N.E.W.W. Assoc. Vol. 19,
(1905), P.437

Contents:

Methods used for estimating flow - P. 441
Locating current meter stations - P. 442
Channel conditions - P. 443
Operation of stations - P. 444
Kind of stations - P. 444
Estimates of flow during winter season - P. 446
Current meter stations in winter - P. 447

Title: - C, D, E, G.

Flow of Rivers Near New York City. - Henry A. Pressey.
1903. U.S.G.S. Water Supply Paper #76

Contents:

Methods of Measuring Velocity in River Channels - P. 14-20
Vertical Velocity Curves on Streams without Ice Cover
P. 20-48
Flow of River under ice, Smooth and Unbroken Cover. P.48-63
Flow of Rivers Under Ice, Broken and Tilted Cover -
P. 64-66
Quality of River Water - P. 67-85
Gage Heights and Discharge Measurements - P. 86-104

(Data refers to New York State rivers)

Title - C, D, E.

Forests and Stream Flow - W. G. Hoyt and H. C. Troxell -
Trans. A.S.C.E. Vol. 99 - 1934 - P. 1

Contents:

Nature and extent of forest cover - P. 5
Effect of deforestation and denudation - P. 8
Tables showing:
Increase in summer runoff from July to October in
inches and percent - P. 22-28 - for Western States.
Erosion - P. 29

NEW ENGLANDSURFACE WATERSTitle: - D. E.

Gaging Minnesota Streams in Winter. - W. G. Hoyt. -
Eng. News, Vol. 68, 1912, P. 499

Contents:

Method employed and results obtained during winter
of 1911-1912

Title: - C, D, E, G.

Geological Survey Gaging Stations - B. D. Wood,
USGS Water Supply Paper #280, 1910

Contents:

Connecticut River Basin - P. 13
Record of gaging stations - 1900-1910. - P. 13

Title: - D.

Hydrographic and Meteorological Surveys for Water Supply -
James E. Jones and George A. Lewis - Jnl. Am. W.W. Association-
Vol. 27 - No. 5, May, 1935, P. 594

Contents:

Snow surveys -
(How to arrange field parties - what equipment needed -
object of snow survey) - P. 596-597
Explanatory statements pertaining to stream flow records
to usages - P. 597
Mt. Rose Sampler tube for snow surveys explained - P. 596

Title: - C, D, E, G.

Hydrographic Manual of the U. S. Geological Survey. -
E.C. Murphy, J. C. Hoyt, and George B. Hollister.
U.S.G.S. Water Supply Paper #94 - 1904

NEW ENGLANDSURFACE WATERSContents: (Con'td.)

Selection of Gaging Stations - P. 10-11
 Classification and Equipment of Gaging Stations - P. 11-14
 Gages - P. 14-17
 Bench Marks - P. 17
 Stay Lines - P. 17
 Measurements of Depth - P. 18
 Measurements of Velocity - P. 19-21
 Classes of Discharge Measurements
 Gage Readings - P. 24
 Standard Cross Section - P. 24
 Data on Floods - P. 25
 Reconnaissance - P. 26
 Description and Care of Instruments - P. 26-31
 Records and Reports - P. 31-41
 Computations - P. 41-51
 Tables - P. 52-72

Title: - C, D.

Ice Engineering - H. T. Barnes - Journal BSCE.
 Vol. 15 - September 1928 - Page 319

Contents:

Nature of water - P. 321
 Ice-forming power of water - P. 323
 How to prevent bridge washouts by ice - P. 325
 Ice jams treated with thermit - P. 328

Title: - C, D, E, G.

Index of River Measurement Stations as of Sept. 10, 1933.
 Part I, North Atlantic Slope Basins. USGS Department of
 Interior.

Contents:

Water Supply Papers containing results of streams
 measurements 1899-1932 - P. 2
 List of existing and discontinued river measurement
 stations with periods of existence - P. 4-17

NEW ENGLANDSURFACE WATERSTitle: - D.

Measuring Rainfall, Runoff, Stream and Storm Water Flow -
Public Works Journal - Vol. 66 - Sept. 1935 - P. 20

Contents:

Needed rainfall data - P. 20
Types of rain gages - P. 20
Measuring Runoff - P. 21
Measuring storm water flow - P. 21

Title: D, E.

Measurement of River Discharge - J. B. Spiegel.
Jrnl. A. W. W. Assn. - Vol. 13, 1925, P. 1

Contents:

Factors governing the selection of gaging stations
on a river and of non-recording or recording gages.

Title: - C, D, E.

Measurement of the Flow of Streams by Approved forms
of Weirs with New Formulas and Diagrams - Richard R.
Lyman - Trans. ASCE - Vol. 87 - 1914 - P. 1189

Contents:

Advantages of using Weirs without end contractions - P. 1190
Table and diagram of weir measurements of stream flow -
P. 1194
Broad crested weirs - P. 1199
Sharp crested weirs - P. 1224
Tables - P. 1226

Title - C, D, E.

Method for Adapting the Records of Stream Flow at one
Point to Another Point on the same Stream - H. W. Dennis -
Trans. ASCE - Vol. 84 - 1921 - P. 551

NEW ENGLANDSURFACE WATERSContents:

- Synopsis - P. 551
- Data used and assumptions made - P. 552
- Ordinary method of making comparison flow - P. 553
- Change of characteristics of the watershed - P. 555
- Description of method - P. 556
- Application of various methods - P. 561

Title: - C, D, E, G.

Method of Correcting River Discharge for a changing stage - B. E. Jones, USGS Water Supply Paper 375, 1915

Contents:

- History - and general relations - P. 117-127

Title: - C, D, E.

Method of Determining Storm Water Runoff - C. B. Buerger
Trans. ASCE - Vol. 77 - 1915 - P. 1139

Contents:

- Existing methods - P. 1140
- Writers' runoff formula - P. 1144
- Tables of Kuichling's Gagings - P. 1147
- Applications of runoff - formula - P. 1161
- Diagram for finding value of the expression - P. 1163

Title: - D, E.

Methods of Estimating Stream Flow when Streams are Frozen - W. G. Hoyt - Eng. News, Vol. 69, 1913, P. 725

Contents:

Graphic Method - Developed from studies during winter of 1911-12 in Michigan.

NEW ENGLANDSURFACE WATERSTitle:- D, E.

Methods of Obtaining Records of Stream Flow for
Municipal and Industrial Purposes. - C. C. Covert -
Jrnl. A.W.W. Assn. - Vol. 10, 1923, P. 778

Contents:

Location of Gaging Stations.
Type of Gage.
Making of Discharge Measurements
Measuring Small Streams
Obtaining Winter Records.

Title:- E.

New Method of Estimating Stream Flow Based upon a New
Evaporation Formula - John F. Hayford and J. A. Folse,
Carnegie Institution of Washington, Publication #400, 1929

Contents:

Observations on evaporation on Lake Michigan - Huron and
Lake Superior.
Development of evaporation formula.
Application of proposed methods to all streams in eastern
two-thirds of U. S. where annual rainfall is 20" or more.

Title: - D.

Preventing Ice Jams on Connecticut River - Public Works
Journal - Vol. 66 - April, 1935 - P. 36

Contents:

An unusual method which proved entirely successful on
other rivers to be tried on Connecticut River - P. 36

Title: - C, D, E.

Rainfall and River Flow - Cyrus C. Babb - Trans. A.S.C.E.,
Vol. 28, 1892, P. 322

NEW ENGLANDSURFACE WATERSContents:

Information and tables based on rainfall and discharge records at various points on Connecticut River basin from 1871-1885 and other rivers investigated by U. S. Engineer Corps.

Title: - C, D, E.

Rainfall and Runoff, Charles E. Gregory - Trans. A.S.C.E. Paper No. 1048 - 1907 - P. 458

Contents:

Formulas and diagrams - relative to runoff pertaining to size and slope of watershed - P. 459-467
 Diagrams showing relation of long-time uniform storms to proposed curves in New York - P. 478
 Diagrams explaining intensity of rainfall - P. 485
 Table - comparison of results of runoff formulas, etc., for area and slopes - P. 489

Title: - D.

Rainfall and Stream Flow Conditions in Southern New York - Arthur W. Harrington - Journal A.W.W. Association - Vol. 28- January 1936 - P. 1

Contents:

Comparison to flood of 1927 in N. E. - P. 1
 Precipitation - P. 2
 Flood Flows - P. 4
 Inadequate gaging - P. 4

Title:- C, D, E.

Rainfall Characteristics and their Relation to Soils and Runoff - C. S. Jarvis - Trans. ASCE - Vol. 95 - 1931 - P. 379

NEW ENGLANDSURFACE WATERSContents:

Form of data - P. 379
 Climatic variations - P. 382
 Climatic stability - P. 382
 Determinate limits - P. 383
 New views of old problems - P. 383
 Watershed characteristics - P. 384
 Limitations governing atmospheric moisture - P. 385
 Tables of evaporation rates - P. 386
 Time element involved in evaporations and condensation -
 P. 391
 Soil characteristics - P. 393
 Application to practical problems - P. 396
 Runoff due to thawing - P. 406

Title: D.

Recording of River Discharge - Nathan C. Grover - Military Engineer - Vol. 20 - March-April 1928 - P. 120-124

Contents:

Tables, graphs, illustrations - Shows typical recording gages, stations, etc.

Title:- D, E.

Records of Flow at Current-meter Gaging Stations when the
 Streams are Subject to Ice - F. H. Tillinghast - Eng.
 News - Vol. 53, #19, May 11, 1905, P. 491

Contents:

Discharge measurements with ice conditions of Connecticut
 River at Orford, N.H. - P. 491
 Table: Relation between discharges from open section
 and ice rating curves with coefficients - P. 492

Title:- C, D, E, G.

Relation of Rainfall to Runoff - G. W. Rafter - USGS
 Water Supply Paper #80 - 1903

NEW ENGLANDSURFACE WATERSContents:

Table of average rainfall, runoff and evaporation for
storage growing and replenishing periods of Conn. River
from 1872 to 1885. - P. 98
Fitzgerald's evaporation formula - P. 38-43
Effect of forests on rainfall - P. 53-56

Title: - C, D, E, G.

Relation of Steam Gaging to the Science of Hydraulics -
C. W. Pierce and R. W. Davenport. USGS Water Supply Paper
375, 1915

Contents:

Historical data - P. 77-84

Title: - C, D.

Report of Committee on Rainfall and Runoff. 1934-35.
Trans American Geophysical Union. National Research
Council August 1935. 16th Annual Meeting April 25, 26,
1935. P. 404

Contents:

Bibliography - P. 404
Experimental Study of Runoff - P. 405
Bibliography - Runoff and soil erosion - P. 407, 409-410
Experimental plots for runoff in operation in Connecticut
Hartford Water District (West Branch of Farmington R.,
East Branch of Farmington R., Nepaug R., Phelps Brooks,
Clear Brook, West Hartford since 1868, others 1912 to
date. Caleb Mills Saville). P. 411
Experimental plots for runoff in operation in N.Y. P.
411-414
The infiltration theory of surface runoff. Outline of
paper given in Trans. for 14th Ann. Meeting 1933 - P.
416-418
Bibliography - Rainfall and runoff - P. 419-423

NEW ENGLANDSURFACE WATERSTitle: - C, D.

Report of the Committee on Runoff of Boston Society of
Civil Engineers - Jnl. B. S. C. E., Vol. 9, No. 8, Oct.
1922

Contents:

List of Most Published Runoff Records for New England with
an Index of Where They can be Found (Not included in
Report - Copy available at Library of B.S.C.E.)

Grading or Rating of Stations According to Their Relative
Accuracy - P. 188-204

Relation of Runoff to Drainage Area on Connecticut River -
P. 175

Evaporation from Water Surfaces in New England and New
York - by months - P. 178

Method of Working up Winter Records - Fig. 6

Comparison of New England Mean Annual Runoff Figures 1871-
1920 - Appendix A.

Duration Curves. - Connecticut River - P. 207

Title: - C, D, E.

Report of Committee on Yield of Drainage Areas - Jnl.
N.E.W.W. Assoc. Vol. 28, #4, December 1914 - P. 397

Contents:

Evaporation table - P. 409

Yield from land surfaces - P. 410

Table and diagrams showing average yield of drainage
areas P. 411-413

Relation between precipitation and yield - P. 414-416

How to use capacity tables and diagrams for computing
the safe capacity of sources of water supply P. 454

Advantage of a large storage capacity - P. 464

Title: - D.

Runoff Records from Department of Agriculture Projects -
Public Works Journal - Vol. 66 - Nov. 1935 - P. 21

NEW ENGLANDSURFACE WATERSContents:

Explaining Soil erosion - P. 21

Story of demonstrations projects of D. of A. reports on runoff figures which are of interest - P. 21

Title: - A, C, D.

Stream-flow Data; Its Collection and Use - H. B. Kinnison - Jnl. B.S.C.E. Vol. 17, #5, May 1930 - P. 171

Contents:

Need for stream-flow data - P. 172

Collection of data - P. 173

Gaging stations and equipment - P. 175

Rating curves - P. 177

Determination of peak flow - P. 181

Relation between gage height and discharge - P. 182

Current meter measurements - P. 186

Duration curve of Connecticut River - P. 193

Gaging stations of Connecticut River - P. 199

Title: - C, D, E, G.

Stream-Gaging Stations and Publications Relating to Water Resources - B. D. Wood. USGS Water Supply Paper #340. 1885-1913

Contents:

List of Gaging Stations maintained at Connecticut River Basin - P. 7

Title: - C, D, E, G.

Studies of Relations of Rainfall and Run-off in the United States - W. G. Hoyt and others, USGS Water Supply Paper #772, 1936

NEW ENGLANDSURFACE WATERSContents:

- Previous Studies - P. 16-19
- Precipitation - P. 20-49
 - Changes, years of high and low, etc.
- Changes in temperature - P. 49-58
- Changes in Run-off - P. 58-60
- Precipitation, Temperature and Run-off, by Basins, P. 60-92
- Changes in Rainfall, Temperature and Run-off by Basins - P. 92 - 100
- Relations between Rainfall and Run-off - P. 100-111
- Stream Flow - P. 111-120
 - Depletion curves, recession curves, ground-water levels and accretion, unit hydrographs, infiltration capacity and storage factors, meteorological factors, channel storage.
- Surface Run-off - P. 120
 - Quantitative analysis, unit hydrograph, distribution graph, unit hydrographs and distribution graphs by basins.
- Unit Hydrograph method and storm transposition in flood problems relating to great storms in the Eastern and Central United States - by Merrill Bernard - P. 218-244
- Ground-water Run-off - P. 245-248
- Soil Moisture - P. 248-255
- Run-off During Drought Periods - P. 255-257
- Comparison of Deficiencies in Ground Water run-off with deficiencies in rainfall - P. 257-269
- Ground water levels - P. 269-273
- Comparison of Graphs of Minimum Flow - P. 273-275
- Report of Advisory Committee of Section of Hydrology of American Geophysical Union - P. 275-282
- References - P. 283-294

(Excellent study for methods, no data on Connecticut river).

Title: - A, C, D, E, G.

Surface Water Supply of the United States - Part I, North Atlantic Slope Drainage Basin - USGS Water Supply Paper 1899-date.

Contents:

Published Annually in Water Supply Papers Listed Below:
 1899 (#35, 39 rating tables), 1900 (#47, 52 rating tables),
 1901 (#65, 75), #82, #97, #124, #165, #201, #241 (1907-8),
 261, 281, 301, 321 (1912), 351, 381, 401, 431, 451, 471,
 501 (1919-20), 521, 541, 561, 581, 601, 621, 641 (1927),
 661, 681, 696, 711, 726, 741 (1933).

NEW ENGLANDSURFACE WATERSContents: (Con'td.)

Records previous to 1899

14th annual report, part II, 1892-1893 (records 1871-1886 incl.)

Bulletin #140, 1896 (Records 1880-1895 incl.)

19th Annual Report, Part IV, 1897-1898 (Records 1896-1897 incl.)

20th Annual Report, Part IV, 1898-1899 (Records 1898)

21st Annual Report, Part IV, 1899-1900 (Records 1899)

Later Records Contain location of station

Drainage Area

Records Available

Gage Data

Discharge Measurements

Channel and Control Extremes of Discharge

Regulation

Accuracy

Daily Discharge Measurements for the year,

Etc.;

Title: - C, D, E, G.

Temperature of Water Available for Industrial Use in
the United States - W.D. Collins, USGS Water Supply Paper
#520, 1925, Pages 97-104

Contents:

Ground Water Temperature Ranges - P. 97-98

Surface Water Temperature Ranges - P. 98-101

Plate VIII Approximate Temperature of Water from Non-thermal Wells at Depths of 30 to 60 ft. -

Plate IX, Approximate Mean Monthly Temperature from Surface Sources for July and August

Mean Monthly Temperature of Surface Water and of Air and Maximum Daily Temperature of Water at Certain Localities --Table-Page 102-104

Title: - D, E.

Unit-Graph - L. K. Sherman - Eng. News Rec. Vol. 108 -
April 7, 1932 - P. 501

Contents:

The object of the unit graph described, and how used by the engineer to construct with reasonable accuracy, the hydrograph corresponding to any sequence of daily precipitation records - P. 501

Title: - C, D, E.

Ware River Intake, Shaft and Diversion Works - Karl R. Kennison - Civil Engineering Jrnl. Vol. 4 - Aug. 1934 - P. 388

Contents:

Diagram of Ware River intake works - P. 389
Effect on Connecticut River - P. 390
Detailed description of works with pictures - P. 390

Title: - D, E.

Water Resources and the Conservation of Forests - Warren E. Darrow - Jrnl. A.W.W. Assn. - Vol. 22, 1930, P. 1351

Contents:

Relation of Forests to Stream Flow -- Based on observations in Switzerland 1890-1919, and in Wagon Wheel Gap, Colorado, 1909-1928. Physical and hydrometric methods of investigation are compared and conclusions drawn regarding conservation of water, erosion, effect on elevation of ground water, and ratio of high river stages to low river stages.

Title: - C, D, E.

Winter Overflow from Ice Gorging on Shallow Streams - J.C. Stevens - Trans. ASCE V. 85, 1922, P. 677

Contents:

Synopsis of ice gorging - P. 677
Statement of the problem - P. 678
Phenomena of ice formation - P. 678
Causes of winter overflow - P. 681
Diagrams showing ice forming factor for each winter season from 1863 to 1921 - P. 692
Remedial measures - P. 695

NEW ENGLANDEVAPORATION

Title: - C, D, E

Determination of Safe Yield of Underground Reservoir of the Closed - Basin Type - Charles H. Lee - Trans ASCE - Vol. 87 - 1915 - P. 148

Contents:

General Principles - P. 153
Physical Features - P. 154
Precipitation - P. 164
Evaporation and Transpiration - P. 176

Title: C, D, E

Evaporation From Water Surfaces - by Carl Rohwer - Trans. ASCE - Vol. 99 - 1934 - P. 672

Contents:

Evaporation from different types of pans - P. 673
Choice of type of evaporation pan - P. 678
Detailed sketch and full data on
U.S. Geological Survey Floating Pan - P. 683
Procedure on general problems - P. 685

Title: - C, D, E, G

Evaporation - U.S.G.S. Water Supply Paper #294

Contents:

Controlling factors, evaporation from snow, water surfaces, ground surfaces, transpiration. - P. 48 - 63

Title: C, D

Evaporation at High Altitudes and Latitudes - J.E. Church
Trans. American Geophysical Union, National Research
Council, June 1934. P. 326-351

NEW ENGLANDEVAPORATIONContents:

Evaporation pans for ice and snow - P. 326-327
 Varieties of snow studied - P. 327
 Rate of evaporation tables - P. 328-329
 Effect of shrinking of snow in pan - P. 327
 Divergence in evaporation in hooded and open pans - P. 329
 Excess of condensation and evaporation - P. 330
 Evaporation of snow in tree crowns - P. 330
 Comparison of evaporation in tree crowns and on
 ground - P. 331
 Effect of topography and forestation - P. 330-332
 Relative Rate of evaporation and melting at high
 altitudes - P. 330
 Climate at evaporation stations - P. 334
 Evaporation at high latitudes - Southern Greenland -P. 336-351

Title: - C, D, E

Evaporation as a function of insolation - by Burt Richardson - Trans ASCE - Vol. 95 - 1931 - P. 996

Contents:

Insolation by tracing radiant heat energy - P. 1003
 Comparison of insolation quantities observed by different
 methods - P. 1005
 Comparison between observed and computed evaporation - P. 1008
 Discussion (excellent to apply to general problems) -P. 1012

Title: - C, G

Evaporation from Free Water Surfaces - U. S. Dept.
 of Agriculture, Technical Bulletin #271, 1931 - P. 1-67

Title: - C, G

Mountain Snowfall Observations and Evaporation Investigations
 in the U. S. - U.S. Dept. of Agriculture. Yearbook, 1910

NEW ENGLANDEVAPORATIONContents:

Evaporation discussion. - P. 407-412

Title: G

New Method of Estimating Stream Flow Based Upon a New
Evaporation Formula - John F. Hayford and J. A. Folse.
Carnegie Institution of Washington, Publication #400, 1929

Title: - C, D

Report of Committee on Evaporation, 1933-34. Trans-
American Geophysical Union, National Research Council,
June 1934. 15th Annual Meeting April 26, 27, 28, 1934
and June 20, 21, 1934. P. 297-302

Contents:

Organization - P. 297
Research in Progress - P. 298
Bibliography - P. 300

Title: - C, D

Report of Committee on Evaporation, 1934-35
Trans-American Geophysical Union. National Re-
search Council, August 1935. 16th Annual Meeting,
April 25, 26, 1935. P. 392-404

Contents:

Research being done on Absorption and transpiration
(California, No. Carolina, Louisiana, Utah)-P. 392-395
Research being done in water level measurement in wells
in Connecticut - P. 395
List of Terms with Definitions, applicable to absorption,
transpiration, evaporation, subsurface waters, run-
off, etc. - P. 396-404

NEW ENGLANDEVAPORATION

Title: - C, D

Water losses in High Latitudes and at High Elevations -
R.E.Horton, Trans-American Geophysical Union, National
Research Council, June 1934. P. 351-379

Contents:

Evaporation and water losses - P. 351-374

Evaporation from and condensation on snow and
ice - P. 374

Rolf's Experiments in Sweden - P. 375-377

Rohwer's Experiments on evaporation of ice.

Relation of Wind velocity to condensation - P. 378

Effect of snow - air temperature - difference P. 379

NEW ENGLANDGROUND WATER

Title: - C, D, E, G

Contributions to the Hydrology of Eastern U.S., 1903.
Myron L. Fuller. U.S.G.S. Water Supply Paper #102. 1904

Contents:

Publications of U.S.G.S. Relating to Underground Waters
and Springs. - P. 11.
Hydrologic Field Work - P. 17.
Work by States:-Maine, New Hampshire, Vermont, Massa-
chusetts and Rhode Island, Connecticut, New York, etc.
Notes on Wells, Springs and General Water Resources of
certain Eastern and Central States - P. 21
Methods of Work - P. 21
Economic Value of Records - P. 22
Explanation of Tables - P. 24
Maine - W.S.Bayley - P. 27
New Hampshire - J. M. Boutwell - P. 56
Vermont - George H. Perkins - P. 73
Massachusetts - W. O. Crosby and L. LaForge - P. 94
Rhode Island - W.O.Crosby - P. 119
Connecticut - H.E.Gregory - P. 127

Title: - C, D, E

Determination of Safe Yield of Underground Reservoir of
The Closed - Basin Type - Charles H. Lee - Trans. ASCE
Vol. 87 - 1915 - P. 148

Contents:

General Principles - P. 151
Physical Features - P. 154
Precipitation - P. 164
Evaporation and Transpiration - P. 176

Title: - C, D, E, G

Drilled Wells in the Triassic Area of the Connecticut
Valley - W.H.C. Pyncheon - P. 65. Contributions to the
Hydrology of Eastern U. S. for 1904. Myron L. Fuller,
U.S.G.S. Water Supply Paper #110. 1905

NEW ENGLANDGROUND WATERContents:

Topography - P. 66
 Geology - P. 67
 Sketch map of Triassic Area of Conn. Valley - P. 68
 Character of Deposits - P. 69
 Wells of Connecticut Valley Lowland - P. 74
 In Massachusetts - P. 75-80, 92
 In Connecticut - P. 80-92, 93
 (Detailed Descriptions)

Title: - C, D, E, G

Field Measurements of the Rate of Movement of Underground Waters - Chas. S. Slichter - USGS Water Supply Paper #140, 1905.

Contents:

Capacity of a Sand to Transmit Water - P. 10-15
 Transmission Constant
 Underflow meter for measuring velocity and movement of underground water - P. 16-29
 Laboratory experiments on flow of water through sands and gravels - P. 29-50
 Measurements of underflow at various locations (none in New England) - P. 50-86
 Specific capacity of wells - P. 86-98

Title: - C, D, E

Flow of Ground-Water as Applied to Drainage Wells -
 M. R. Lewis - Trans-A.S.C.E. Vol. 96 - 1932 - P. 1194

Contents:

Introduction of uses - P. 1194
 Artesian wells extending through water-bearing stratum - P. 1197
 Application of curves - P. 1205
 Discussion - P. 1207

NEW ENGLANDGROUND WATERTitle: - D

Ground Water As A Source of Public Water Supplies - L. K. Wenzel of U. S. Geological Survey - Public Works, Engineering Vol. 66 - March, 1935 - P. 12

Contents:

Map showing number of Public Water Supplies derived from wells - P. 12
 Municipal Ground Waters Supply - P. 12
 Source of Ground Waters - P. 12
 Relation to Surface Water Supplies. Effects of Pumage - by U. S. Geological Survey - P. 14

Title: C, D, E, G

Laboratory Tests on Physical Properties of Water Bearing Materials - N.D.Stearns. USGS Water Supply Paper #596, 1928. P. 121-176

Contents:

Method of Sampling
 Specific Gravity
 Mechanical Analysis
 Porosity
 Moisture Equivalent
 Permeability
 Outline of work by Hazen, King and Slichter on effective size in relation to permeability.

Title: C, D, E, G

Occurrence and composition of Well Waters in Granites of N.E. - F.G.Clapp. Underground Water Papers 1910. USGS Water Supply Paper #258, 1911. P. 40

Contents:

General data on occurrence

NEW ENGLANDGROUND WATER

Title: - C, D, E, G

Occurrence of Ground Water in the U.S. - With a discussion of Principles. - Oscar E. Meinzer. USGS Water Supply Paper #489. 1923 - 321 pages.

Contents:

- Chapter I -- Principles of Occurrence - P. 2
- " II -- Kinds of Rocks and Their Water Bearing properties - P. 102
- " III -- Structure of Rocks and its influence on ground water - P. 149

(Excellent paper for general information)

Title: - C, D, E, G

Outline of Ground Water Hydrology with Definitions - Oscar E. Meinzer. USGS Water Supply Paper #494, 1923.

Contents:

- Facts, Concepts, Definitions and terms - P. 1-11
- Water of the Earth - P. 11
- Atmospheric Water - P. 12
- Surface Water - P. 15
- Subsurface Water - P. 17
- Wells - P. 60

(Excellent paper for general information)

Title: - C, D, E, G

Outline of Methods for Estimating Ground Water Supplies. Oscar Edward Meinzer. USGS Water Supply Paper #638-C, 1931

Contents:

- General Conditions - P. 99
- Methods for estimating intake from surface streams - P. 100
- Methods for estimating rain and snow - P. 102
- Methods for estimating discharge by overflow - P. 105
- Leakage methods estimated - P. 110
- Evaluation of extraneous influences on water levels - P. 135

NEW ENGLANDGROUND WATER

Title: - C, D, E, G

Plants as Indicators of Ground Water. - U.S.G.S. Water
Supply Paper #577, 1927.

Title: - C, D, E, G

Preliminary list of Deep Borings in the U.S.
Part I. Alabama to Montana - N.H.Darton,
USGS Water Supply Paper #57. 1902.

Contents:

List of Borings:
Connecticut - P. 20
Massachusetts - P. 51

Title: - C, D, E, G

Preliminary list of deep borings in the U.S.
Part II. Nebraska - Wyoming - N.H.Darton,
USGS Water Supply Paper #61 - 1902.

Contents:

List of borings:
New Hampshire - P. 12

Title: C, D, E, G

Preliminary list of Deep Borings in the U.S. Second
edition:- N.H.Darton - U.S.G.S. Water Supply Paper
#149. 1905.

Contents:

List of Borings:
Connecticut - P. 23
Massachusetts - P. 64
New Hampshire - P. 82
Vermont - P. 157

NEW ENGLANDGROUND WATER

Title: - C, D, E, G

Record of Deep Well Drillings for 1905 - Myron L. Fuller
and Samuel Sanford. U.S.G.S. Bulletin #298, 1906.

Contents:

Well Records - Samuel Sanford :
Connecticut - P. 14-47
Massachusetts - P. 14,90-91, 234
New Hampshire - P. 112-113
Rhode Island - P. 146-147
Vermont - P. 170-171

Title: - C, D, E

Relation of Geology to Ground Water Supplies of New
England. - Irving B. Crosby. Journal N.E.W.W. Asso-
ciation. Vol. 47, 1933. - P. 74

Contents:

Ground Water in Triassic Rocks of Connecticut Valley -
P. 76-80

Title: - C, D, E, G

Relation of the Law to Underground Waters - Douglas W.
Johnson. USGS Water Supply Paper #122, 1905

Contents:

- I. Common Law Rules Concerning Underground Waters - P.9-38
 - Underground Waters of First Class - Known chan-
nels - P. 10-12
 - Underground Waters of Second Class - Unknown
channels - P. 12-32
 - Interference of wells, springs and streams. P.14-19
 - Injury to Land - P. 19
 - Intercepted underground waters - P. 21-22
 - Pollution of underground waters - P. 25
 - Effects of Motives, Grants and Prescriptions.
P. 28-32
- II. Legislative Acts Affecting Underground Waters - P. 39-50
(nothing in New England)

NEW ENGLANDGROUND WATER

Title: - C, D

Report of Committee on Underground Water, 1933-34.
Trans-American Geophysical Union, National Research
Council, June 1934. 15th Annual Meeting April 26, 27,
28, 1934 and June 20, 21, 1934. P. 312-320

Contents:

Organization - P. 312
Research in Progress - P. 313
Permeability - O. E. Meinzer - P. 316
Lake and Ground Water Levels - O.E.Meinzer - P. 317
Bibliography - P. 318-320

Title: - C, D, E, G

Temperature of Water Available for Industrial Use in
the United States - W. D. Collins. USGS Water Supply Paper
#520, 1925, P. 97-104

Contents:

Ground Water Temperature Ranges - P. 97-98
Surface Water Temperature Ranges - P. 98-101
Plate VIII Approximate Temperature of Water from Non-
thermal Wells at Depths of 30 to 60 ft.
Plate IX, Approximate Mean Monthly Temperature from
Surface Sources for July and August.
Mean Monthly Temperature of Surface Water and of Air
and Maximum Daily Temperature of Water at Certain
Localities - Table - P. 102-104

Title: - C, D, E, G

Triassic Rocks of the Connecticut Valley as a Source
of Water Supply - M.L.Fuller - P. 95. Contributions
to the Hydrology of Eastern U.S. 1904. Myron L. Fuller
U.S.G.S. Water Supply Paper #110. 1905.

NEW ENGLANDGROUND WATERContents:

Underground Water Conditions - P. 95
Sources of Water - P. 95
Conglomerates - P. 95
Sandstones - P. 96
Shales - P. 98
Traps - P. 99
Geology - P. 101
Structure - P. 101
Joints - P. 103
Faults. - P. 104
Composition of Triassic Waters - P. 105

Title: - C, D, E, G

Underground Waters for Farm Use - Myron L. Fuller,
USGS Water Supply Paper #255. 1910

Contents:

Sources of Water Supply - P. 8
Water Bearing Formations - P. 8
Occurrence of Water - P. 11
Relative Safety of Different Materials - P. 16
Common Sources of Water - P. 18
Underground Waters and their Protection - P. 22
Springs - P. 22
Wells - P. 27
Cisterns - P. 54

(Generalized data)

Title: - C, D, E, G

Underground Waters of Eastern United States - Myron L.
Fuller and others. U.S.G.S. Water Supply Paper #114. 1905

Contents:

Occurrence of Underground Water - M. L. Fuller - P. 18-40
New Hampshire - M. L. Fuller - P. 57-59
Topography, Geology, Underground Waters, Principal Publications.

NEW ENGLANDGROUND WATERContents: (Cont.)

Vermont -- S. H. Perkins -- P. 60-67

General Conditions, Water Supply, Summary, Principal Publications.

Massachusetts and Rhode Island -- W. O. Crosby -- P. 68-75

Geology, Water Supplies (Conn. Valley), Principal Publications.

Connecticut -- H. E. Gregory -- P. 76-81

Rainfall, Geology, Water Supply, Principal Publications.

Title: -- C, D, E

Watershed Leakage in Relation to Gravity Water Supplies. -- R. E. Horton. Journal N.E.W.W. Assoc. Vol. 33
No. 3. -- September 1919 -- P. 306

Contents:

General Description -- P. 306-308

Conditions of Occurrence of Watershed Leakage -- P. 309-316

Watershed Leakage in regions of deep glacial deposits. P. 317-318

Examples of Watershed Leakage on N.Y. State Rivers. P. 318-326

Watershed leakage in Watuppa Pond Area, Fall River, Massachusetts -- P. 326-328

Detection of watershed leakage -- P. 330-332

Discussion -- P. 33-336

NEW ENGLANDSNOW SURVEYS

Title: - C, D, E.

Forecasting Water Supply - George D. Clyde - Civil
Engineering - Vol. 2 - October, 1932 - P. 610

Contents:

Snow accumulations measured - P. 610
Relationship between snow cover and runoff - P. 611
Character of precipitation - P. 611
Diagrams and pictures of types of snow samplers and
scales used. - P. 612

Title: - D, G.

Hydrographic and Meteorological Surveys for Water Supply -
James E. Jones and George A. Lewis - Jnl. Am. W. W. Associa-
tion - Vol. 27, #5, May 1935, P. 594

Contents:

Snow surveys -
(How to arrange field parties - what equipment
needed - object of snow survey) - P. 596-597
Explanatory statements pertaining to stream flow records
to usages - P. 597
Mt. Rose Sampler tube for snow surveys explained - P. 596

Title: - C, G.

Mountain Snowfall Observations and Evaporation Investigation
in the U. S. - U. S. Dept. of Agriculture. Year book 1910.

Title: - C.

Principles of snow surveying as applied to forecasting
stream flow - J.E. Church - Journal of Agricultural
Research Vol. 51, #2 - 1935

Contents:

Method of snow sampling - P. 97
Apparatus - Mount Rose sampler - P. 97
Snow survey notes - in Reno, Nevada - P. 98
Forecasting - P. 98

NEW ENGLANDSNOW SURVEYContents: (cont.)

Variable factors affecting run-off - P. 104
 Precipitation during run-off - P. 105
 Inaugurating a snow survey - P. 119
 Cost of snow surveys - P. 124
 Snow surveying in practice - P. 125

(Excellent paper)

Title: - C, D

Report of Committee on Snow, 1933-34, Trans-American
 Geophysical Union, National Research Council, June 1934
 15th Annual Meeting April 26, 27, 28, 1934 and June 20, 21,
 1934. P. 263-278

Contents:

Organization-P.263
 Regional Report - New England (especially Androscoggin
 and Kennebec Basins) P. 264
 Regional Report - New York - 265
 Current Publications - P. 275

Title: - C, D

Report of Committee on Snow, 1934-35. Trans-American
 Geophysical Union, National Research Council, August
 1935. 16th Annual Meeting April 25, 26, 1935. P. 368-387

Contents:

Report on New England Region (generalized) - by
 Paul L. Bean - P. 369
 Bibliography - P. 373-374
 General Plan of Organization of National, regional,
 and state snow surveys and stream flow forecasting.
 National Water Resources Board - P. 377
 Research being conducted - P. 378
 Current publications - P. 380-387

NEW ENGLANDSNOW SURVEYSTitle: - C, G

Snow Surface Temperature - Robert E. Horton and H. R. Leach
 Monthly Weather Review vol. 62 - No. 4 - 1934 - P. 128

Contents:

Study of evaporation - P. 128
 Methods used - P. 129
 Plate - Hourly observations recorded and computed - P. 130
 General formula standardized - P. 130

Title: - D, E

Snow Surveys as an aid to Flood Forecast and Control -
 J. E. Church - Engineering News, vol.114, June 1935 - P. 879

Contents:

General Statements - regarding snow and floods - P. 879
 Diagrams showing fluctuations in level of Lake Tahoe - 1904 -
 1911 including the highest level of record - P. 880
 Table - Precipitation in inches - P. 880
 Table - forecast of elevations of Lake Tahoe - P. 880

Title: C, G

Snow Survey as an index to Summer Precipitation -
 O. W. Monson - Monthly Weather Review - Vol.62-#9-1934-P. 322

Contents:

Variation of relationship in Montana as compared with other
 States - P. 322
 Maps and charts - Rainfall Comparisons - P. 323-329
 Methods used in computing.- P. 325

Title: - C, G

Snow Surveys as Related to Irrigation projects. -
 Alfred H. Thiessen - U.S.Dept of Agriculture. Year Book 1911 -
 P. 391

NEW ENGLANDSNOW SURVEYSContents:

Variation in Density and Distribution of Snow - P. 391
 Problem of a Snow Survey in Utah - P. 392
 Instruments - P. 393
 Methods Used - P. 393
 Value of the Snow Survey P. 395

Title: - D, E

Snow Surveys for Predicting Stream Flows - S.C.Alter -
 Engineering News - vol.69, #22 - May 29, 1913 - P. 1110

Contents:

Description of instruments and surveys - for practical
 use by farmers and engineers - P. 1110-1113

Title: - C, G

Value of Snow Survey. - Alfred H. Thiessen - Dept. of
 Agriculture Yearbook - 1911 - P. 391

Contents:

Problem of a snow survey - P. 392
 Methods - P. 393
 Apparatus - P. 393
 Results - P. 394
 Value of the snow survey - P. 395

NEW ENGLANDPOLLUTIONTitle: - B

Connecticut River Watershed. Stream Condition
Survey, September 1934. New England Regional
Planning Commission.

Contents:

Maps and diagrams giving Population, Area, Sewage
and Sewage Disposal Systems of Various Towns of
Connecticut River Watershed. (Data not complete).

Title: - B, C

Disposal and Purification of Factory Wastes or Manu-
facturing Sewage. - H.W.Clark. Forty-first Annual Re-
port of Mass. State Board of Health - 1909. Reprint.

Contents:

Wastes from Woolen Mills, Carpet Mills, Paper Mills,
Dye Houses, Creameries, Binders Board, Yeast, Cotton
Batting, Silk Mills, Gas House, Dyeing, Bleaching
and Mercerizing of Cotton Yarn, Shoddy Mills, Glue
and Paint Mills.

Title: - C, D, E, G

Disposal of Strawboard and Oil-well Wastes. - R.L.Sackett
and I. Bowman. USGS Water Supply Paper #113, 1905

Contents:

Sources and effects of stream pollution - P. 9
Manufacture of strawboard - P. 11
Methods of disposal of waste - P. 15
Methods of purification - P. 18
Discussion of tests - P. 29

NEW ENGLANDPOLLUTIONTitle: - B, C

Experiments upon the Purification of Sewage and Water
at Lawrence Experiment Station, 1915. - H. W. Clark,
First Annual Report of Massachusetts State Department
of Health. Reprint.

Contents:

Wastes from Woolen Mills, Paper Mills, Leatherboard
factories.

Title: - C, D, E, G

Index of Analyses of Natural Waters in th U.S. -
W.D.Collins and C.S.Howard - USGS Water Supply Paper #560
1925, P. 53-85

Contents:

List of publications and agencies reporting data.

Title: -D

Limits of Pollution Loadings for Water Purification Systems -
H.W.Strecter. Journal A.W.W.Assoc. Vol.27, No.1, Jan.1935-P. 1

Contents:

Performance records - P. 2
Observations and study of various methods for application-P.3

Title: - D

Needed: A National Policy on Stream Pollution - Public
Works Journal - vol. 66 - January, 1935 - P. 13

Contents:

Discussion on above title - P. 13-15

NEW ENGLANDPOLLUTION

Title: - C, D, E, G

Normal and Polluted Waters in Northeastern United States - Marshall O. Leighton. U.S.G.S. Water Supply Paper #79 - 1903.

Contents:

Quality and Pollution of Natural Waters - P. 13
 Connecticut River Basin - P. 68
 Natural Resources - P. 68
 Flow - P. 71
 Millers River - P. 73
 Normal Water - P. 74
 Pollution - P. 75
 Deerfield River - P. 76
 Chicopee River - P. 77
 Ware, Swift and Quaboag Rivers - P. 80
 Westfield River - P. 85
 Hockanum River - P. 89
 Park River - P. 91
 Farmington River - P. 94
 Connecticut River - P. 94

(Good Paper)

Title: - C, D, E

Pollution of Streams Affecting Industrial Uses. J.F. Jackson, Jnl. N.E.W.W. Assoc. vol. 36 - #1 - March 1922 - P. 14

Contents:

Industries using water(waste waters from factory with diagram) - P. 14-15
 Use and Quality of water in different industries - P. 16-19
 Analysis of different industrial wastes in river water - P. 27

Title: - C, D, E, G

Pollution of Streams by Sulphite pulp Waste. A Study of Possible Remedios. - E. B. Phelps. USGS Water Supply Paper #226, 1909

NEW ENGLANDPOLLUTIONContents:

Manufacture of Sulphite Pulp - P. 9
 Effect on Various Streams - P. 10
 Sulphite Pulp Waste Liquor - P. 16
 Experimental Investigations - P. 27

Title: - C, D, E

Pollution of Springs by manufactural wastes and methods of prevention. H.W.Clark, Jnl. NEWW Assoc. vol.15, #6, Dec.1901
 P. 500

Contents:

Waste from woolen mills - P. 502
 Tannery waste - P. 506
 Silk mills waste - P. 508
 Paper mills waste 508
 Methods of prevention - P. 509

Title: - C, D, E, G

Prevention of Stream Pollution. - Bernard Phelps.
 USGS Water Supply Paper #189, 1906

Contents:

Disposal of Waste Liquor - P. 8
 Laboratory Investigations - P. 10
 Field Investigations - P. 13

Title: - C, D, E, G

Purification of Textile and other Factory Wastes -
 Herman Stabler and Gilbert H. Pratt. USGS Water Supply Paper #235, 1909

Contents:

Wool Scouring - P. 6-26
 Processes, wastes, purification, summary
 Bleaching and Dyeing Cotton Yarn - P. 27-40
 Processes, wastes, treatment of lime-boil and
 caustic-boil liquors, summary

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NEW ENGLANDPOLLUTIONContents: (Cont.)

Manufacture of oleomargarine, fertilizer and glue --P.62-74
Processes, wastes, experimental treatment,
evaporation, recovery of wastes.
(Relates principally to Rhode Island conditions).

Title: - M

Relation between B. O. D. and Volatile Solids of the Sludge
Deposits in the Connecticut River. - Sewage Works Jnl.
Vol. 4, 1932

Title: - B, C

Report of the Division of Water and Sewage Laboratories -
Annual Report of Massachusetts Department of Public
Health - 1930. Reprint.

Contents:

Studies of Wastes from Tanneries, Felt Works, Glue Works,
and Gelatin Works - P. 8

Title: - B, C, D

Rural Sanitation with Special Reference to Water
Supply - X. H. Goodnough.

Contents:

Pollution of well water

Title: - C, D, E

Sanitary Protection of Public Water Supplies - Journal
N.E.W.W. Association vol. 35 -#4 - Dec. 1921 - P. 297

NEW ENGLANDPOLLUTIONContents:

Treatment of sewage from towns upon catchment area - P. 298
 Purification of water by natural agencies - P. 299
 Filtration - P. 299
 Disinfection - P. 300

Title: - C, D

Standard Methods for the Examination of Water and
 Sewage. - American Public Health Association.

Title: - D, E

Standards of Purity for Rivers and Watersheds -
 Eng. News, Vol. 68, 1912. P. 835

Contents:

Preliminary report of committee of National Association for prevention of Pollution of Rivers and Waterways.

Title: - A

Stream Pollution and Industrial Wastes. - James A. Newlands. - February, 1926.

Title: - C, D, E, G

Stream Pollution by Acid-Iron Wastes. - Herman Stabler -
 USGS Water Supply Paper #186, 1906.

Contents:

Effect of Acid-iron liquors upon sewage - purification processes - P. 11
 Recovery of copperas from acid-iron wastes - P. 28
 Processes for disposal of pickling liquor - P. 35

NEW ENGLANDPOLLUTION

Title: - C, D, E, G

Stream Pollution by distillery refuse - Herman Stabler
USGS Water Supply Paper #179, 1906

Contents:

Distillery Processes and Sources of Pollution - P. 5-12
Effect of Polluting Effluents on Stream - P. 12-15
Treatment of Wastes to Prevent Pollution - P. 16-33
Filtration, Precipitation, Fermentation, Evapo-
ration, etc.

NEW ENGLANDWATER SUPPLYTitle: - C

Census of Municipal Water Purification Plants in the
United States - 1930-1931, American Water Works Association

Title: - C, D, E

Diversion of Interstate Waters for Domestic Water
Supply - Frank E. Winsor - Journal N.E.W.W. Assoc.
Vol. 45 - 1931 - P. 267

Contents:

Outline of Data - P. 277
Stream Flow - P. 277
Navigation - P. 278
Power Developments in Connecticut - P. 279
Pollution - P. 280
Discussions - P. 287-311

(Good Paper)

Title: - D

Ground Water as a Source of Public Water Supplies - L. K.
Wenzel of U. S. Geological Survey - Public Works, Eng. -
Vol. 66 - March 1935 - P. 12

Contents:

Map Showing Number of Public Water Supplies Derived from
wells - P. 12
Municipal Ground Waters Supply P. 12
Source of Ground Waters - P. 12
Relation to Surface Water Supplies. Effects of Pumpage -
by U. S. Geological Survey - P. 14

Title: - C, D, E, G

Industrial Utility of Public Water Supplies in the
United States, 1923, W.D. Collins, U.S.G.S. Water
Supply Paper #496, 1923.

NEW ENGLANDWATER SUPPLYContents:

Analyses of Public Water Supplies of the United States, 1923, - P. 28-59

Title: - C, D, E, G

Industrial Utility of Public Water Supplies in the United States, 1932. - W.D. Collins, W.L. Lamar and E.W. Lohr. U.S.G.S. Water Supply Paper #658, 1934

Contents:

Analyses of Public Water Supplies of the United States, 1932 - P. 38-135

Title: - C, D, E

Sanitary Protection of Public Water Supplies - Journal N.E.W.W. Association vol. 35 - #4 - Dec. 1921 - P. 297

Contents:

Treatment of sewage from town upon catchment area - P. 298
Purification of water by natural agencies - P. 299
Filtration - P. 299
Disin Action - P. 300

NEW ENGLANDWATER POWER

Title: - B.

Changes in the Field of Power Production -
Waterman Associated Industries of Massachusetts, 1930

Title: - C, D, E, G

Developed and Potential Water Power of U. S. -
C. R. Daugherty. - USGS Water Supply Paper 579, 1928

NEW ENGLANDWATER POWERTitle: C, D, E, G

Developed and Potential Water Power of U.S. -
C.R. Daugherty - US.G.S Water Supply Paper 579, 1928

Contents:

Sources and accuracy of the data - P. 15
Development of Prime Movers - P. 23
Some uses for the power index - P. 36

Title: - C, D, E, G

Growth of Waterpower development in the U.S. -
R.W. Davenport - US.G.S. Water Supply Paper 579, 1928

Contents:

Tables and data on the growth of water-power in U.S.
P. 205-207

Title: - B

Industrial Structure of New England, Domestic Commerce
Series #23. By Charles E. Artman, Part I.

Contents:

Undeveloped Water Power in 1923 - P. 113
(Not of much value)

Title: - L

New England's Power Resources. - Penrose, 1922

Title: - C, D, E

Power as affecting Flood Control - F.W. Scheidenhelm
Trans ASCE - Vol. 93 - 1929 - P. 815

NEW ENGLANDWATER POWERContents:

Synopsis - P. 815
 Complete Regulation by Storage - P. 816
 Partial Regulation by Storage - P. 817
 Discussion on Reservoirs - P. 819-820

Title: - B

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 of its Power Investigating Committee, April 1924.

Contents:

Undeveloped Water Power - P. 26, 111, 112
 Central Station Capacity - P. 85, 88-92
 Massachusetts Industrial Load in 1920 - P. 94-98
 Connecticut River Power Plants - P. 100-101
 Developed Water Power - P. 104-105

(Power Data well presented)

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Title: - C, D, E, G

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Title: - D, E

Controlling Floods by Reservoirs - Paul Bailey - Eng.
News Rec. - Vol. 101 - October 18, 1928 - P. 597

Contents:

Describing principal element of analysis of one stream
How control is used. - P. 597-598

Title: - D, E

Computation of Floodflows by Slope Area Method -
A. H. Davison - Eng. News Rec. - Vol. 113 -
Aug. 23, 1934 - P. 214

Contents:

Explaining method of procedure - P. 244
Explaining the Chezy formula - P. 244
Diagram showing profile of water surface of river in
flood, showing high water marks and profile com-
puted from a trial discharge value - P. 245

Title: - C, D, E

Detention Reservoirs with Spillway Outlets as an Agency
in Flood Control. H.M.Chittenden - Trans. A.S.C.E.
vol. 82 - 1918 - P. 1473

Contents:

Definitions and terminology - P. 1474
Spillway - in detail - P. 1475
Elements of control - P. 1477
Diagram of Gauge Heights of a Watershed - P. 1477
Prevalence of the reservoir idea - P. 1480
Conflict and Compromise - P. 1482
Diagram illustrating ideal combination of reservoir
uses - P. 1486
Objections, apparent and real - P. 1487
Human factor - P. 1491

NEW ENGLANDFLOOD CONTROL

Title: - C, D, E, G

Destructive Floods in the United State in 1904 -
E.C.Murphy and others. U.S.G.S. Water Supply
Paper #147. 1905.

Contents:

Refers in Detail to Floods in Western U.S.
Maximum Rate of Discharge of Streams in North-
eastern United States - P. 184-187

Title: - C, D, E, G

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E.C.Murphy and others. U.S.G.S. Water Supply
Paper #162. 1906.

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Flood on Poquonnock River, Connecticut - P. 1-3
Floods in New York State - P. 3-15
Floods in Midwest and Western United States
Flood Discharge and Frequency in United States,
Connecticut River - P. 60-61, 87
Index to Flood Literature - P. 88

Title: - C, D, E

Effect of Agricultural Drainage upon Flood Run-off. -
S. M. Woodward and Floyd A. Nagler - Trans A.S.C.E.
Vol. 93 - 1929 - P. 821

Contents:

Synopsis - P. 821
Drainage Statistics from 1920 Census Report - P. 822
Table of Monthly Precipitation and runoff of Des Moines - P.827
Table of Watersheds - with number of Precipitation
stations - P. 831..
Charts and Diagrams showing relation of precipitation
to runoffs - P. 835-838
(Excellent Paper for general information)

NEW ENGLANDFLOOD CONTROLTitle: - D, E

Emergency Water Supply Relief in N.E. Flood Area. - Eng.
News Rec.- Vol. 99 - Dec: 1, 1927 - P. 889

Contents:

An interesting subject, telling how chlorinating apparatus
and supplies were rushed to all municipalities that
were liable to suffer impairment by the flood of 1927
by Connecticut River - P. 889

Title: - D

Estimating Flood Crest Runoff - S. L. Moyre -
Public Works Journal - vol. 64 - July 1933 - P. 12

Contents:

Analysis and formulas for calculating probable
flood crest runoffs for areas of different sizes - P. 12

Title: - D

Emergency Work of the Division of Sanitation During the N.Y.
State Flood - A.F. Dappert - Journal A.W.W. Association
vol. 27, No. 12 - December 1935 - P. 1647

Contents:

Discussion on meteorological conditions - P. 1649
Damages to water supply - P. 1650
Field organization - P. 1652
Control of private water supplies - P. 1655
Examples of difficulties - P. 1660

Title: - C, D, E

Floods and Droughts of New England Streams - C.M. Saville
Journal N.E.W.W. Association - vol. 39, #1, March 1925 - P. 1

NEW ENGLANDFLOOD CONTROLContents:

History and data of Connecticut River flood section - P. 1-18
 Map and chart, rainfall of Connecticut River - 1869 - P. 19
 Table of excessive rainfalls in Connecticut - P. 27
 Chart - Maximum Connecticut River floods at Hartford - P. 30

Title: - C, D, E

Floods and Flood Prevention - H.M.Eakin and C.E.Grunsky -
 Trans A.S.C.E. - vol. 81, 1917 - B1218

Contents:

Data Deficient - P. 1219
 Suggested methods - P. 1219
 Reservoirs - P. 1224
 Geological clues to flood heights - P.1270
 " factors of runoff - P. 1273
 " factors of ground storage - P. 1275

Title: - D, E

Flood Control through Slope Correction - W.E.Elam
 Eng. News Rec. - vol. 100 - June 28, 1928 - P.996-1000

Contents:

Explaining adequate river control-P. 996
 Flood profile characteristics - P. 997
 Revetment - P. 997
 Erosion - P. 998
 Curvature - P. 998
 Where cut-offs are possible - P. 1000

Title: - D, E

Flood Discharge - H. K. Barrows. Jrnl. A.W.W. Assn.
 Vol. 20, 1928. - P. 87

Contents:

A discussion of "flood factors" of W. E. Fuller,
 (Flood Flows, A.S.C.E. Trans., 1914) and a development
 of new flood factors.

NEW ENGLANDFLOOD CONTROLTitle: - D, E

Flood Discharge Estimated for Winooski River in Flood of 1927. Lt. L. R. Groves, Jr, Corps of Engrs. USA - Eng. News Rec. - Vol. 99 - Dec. 22, 1927 - P. 1018

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A subject by Lt. Groves, of U. S. Army showing a cross-section of Winooski River at Burlington. He explains how he went about measuring the flood discharge - P. 1018

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Comparison of Flood Flows - Statistics - Max. 24 -hr average momentary flood peak.
 Connecticut River at North Stratford, N.H. - P. 98
 Connecticut River at Montague City, Mass. - P. 98
 Passumpsic River at Passumpsic, Vt. - P. 98
 Swift River at West Ware, Mass. - P. 98
 Flood States and discharges of Connecticut River at Orford, N.H. and South Newbury, Vt. Data from 1901-1933 incl. P. 132
 Flood States and discharges of Connecticut River at White River Junction, Vt. Data from 1902-1933 incl. - P. 134

Title: - B, E

Flood Study and Flood Precautions - J. R. Freeman Eng. News Rec. vol. 99 - Nov. 17, 1927 - P. 810-811

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A short subject dealing with flood studies and suggestions
for control - P. 810-811

Title: - D

Geological Survey Standard Current Meter - R. L. Atkinson
Military Engineer - Vol. 23 - No. 129 - May and June 1931
P. 293

Contents:

Apparatus and methods used in standard geological surveying
P. 273

Title: C, D, E

Great Storm of September 16-17, 1932. - George V. White,
Journal N.E.W.W. Association. Vol. 47, 1933 - P. 164-183

Contents:

Map Showing Total Rainfall - P. 165
Accumulative Normal and Actual Rainfall in New England
from June 1, 1929 to Oct. 1, 1932.
Peak Flows of Streams Following Storms of November 1927
and September 1932 - P. 168
Areas Flood by Storm of Sept. 16-17, 1932-P. 170
Tables Showing Total Rainfall at Various Stations,
Sept. 15-17, 1932 - P. 171-177
Percent of Total Precipitation Collected - Comparison
between Floods of 1927 and 1932 on Various Drain-
age Areas.

Title: - C, D, E

Improvements of Navigation in Relation to Flood
Control - Stuart C. Godfrey - Trans ASCE - Vol. 93
1929 - P. 762

NEW ENGLANDFLOOD CONTROLContents:

Navigation and Flood Control - P. 762
 Table showing Commercial Statistics - P. 765
 Navigation in Relation to River Shortening - P. 779
 Dredging and Flood Control - P. 781

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Miami Conservancy District, Ohio. History of the Miami Flood Control Project. - C. A. Bock. Technical Reports, Part II, 1918.

Contents:

Organization for Flood Control - P. 11-30
 Preliminary Reports - P. 31-61
 Conservancy Act and Organization of Miami Conservancy District - P. 62-80
 Surveys, Studies and Investigations - P. 81-117
 Official Plan - P. 118-134
 Appraisal of Benefits and Damages - P. 135-154
 Preparation for Construction - P. 155-159
 Opposition - P. 160-176
 Chronology of Events 1913-1918 incl. - P. 177-188

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Miami Conservancy District, Ohio. Hydraulics of Miami Flood Control Project. - Sherman M. Woodward. Technical Reports, Part VII. 1920.

Contents:

Introduction - P. 17-24
 Flood Problem - P. 25-46
 Retarding Basin Plan - P. 47-85
 Operation of Retarding Basins - P. 86-111
 Capacities of Basins - P. 112-121
 Flow Through Outlet Conduits - P. 122-155
 Routing Floods through Retarding Basins - P. 156-200
 Factors Affecting the Height of Dams and Size of Outlet Conduits - P. 201-220
 Determination of Capacity of Spillways - P. 221-246
 Behavior of Retarding Basins During Localized Cloudbursts - P. 247-258
 Hydraulics of Channel Improvements - P. 259-285
 Balancing the Flood Protection System - P. 286-308
 Alternative Flood Protection Plans - P. 309-323

NEW ENGLANDFLOOD CONTROL

Title: - A, B, C, D, E, G

New England Flood of November 1927, U.S.G.S. Water
Supply Paper 636-C. - H. B. Kinnison

Contents:

Data on Flood Flow on Connecticut River Basin, etc.
Map - Distribution of Rainfall

Title: - C

Organization, Financing and Administration of Drainage
Districts. - U. S. Dept. of Agriculture, Bulletin #815
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Power as Affecting Flood Control. - F.W.Scheidenhelm
Trans ASCE - Vol. 93 - 1929 - P. 815

Contents:

Synopsis - P. 815
Complete Regulation by Storage - P. 816
Partial Regulation by Storage - P. 817
Discussion on Reservoirs - P. 819-820

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Probable Flood Flow From a Small Watershed - Public
Works Journal vol. 66 - September, 1935 - P. 12

Contents:

Deals with factors of importance in estimating flood flows -
Gives formulas and data needed for consideration in the
study of flood flows.

Following formulas described:

Burkli-Ziegler Formula
Fuller's 1000 year formula
Kuichling's formula
McMath's formula
Dicken's formula

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Title: - C, D, E

Rainfall in New England - During the Storm of November 3-4, 1927. - K.H. Goodnough, Journal N.E.W.W. Association. Vol. 42, 1928. - P. 150-187

Contents:

Map of New England Showing Total Rainfall - Plate I.
 Areas Flooded by Storm - P. 150-151
 Rainfall Records at Various Stations - Figs. 1-26
 Rainfall Previous to Storm, July to Oct. 1927 - P. 166
 Map of New England Showing Great Rainfall of Oct. 12-14, 1895 - Plate II.
 Areas Flooded by Storm of 1895 - P. 168
 Map of N.E. Showing Great Storm of Feb. 10-14, 1886 - Plate III.
 Areas Flooded by Storm of Feb. 10-14, 1886 - P. 168
 Map of New England Showing Great Storm of Oct. 3-4, 1869 - Plate IV.
 Areas Flooded by Storm of Oct. 3-4, 1869 - P. 171
 Rate of Precipitation -- Storm of Nov. 3-4, 1927 - P. 175-182
 Hourly Rainfall Records - P. 183-186

Title: - C, D, E

Reclamation as Affecting Flood Control - Elwood Mead - Trans A.S.C.E. - Vol. 93, 1929 - P. 812

Contents:

General Statements pertaining to reclamation - P. 812-814

Title: - D, E

Record Rainfalls Cause Heavy Damage in N. E. States - Eng. News Rec. - vol. 99 - Nov. 10, 1927 - P. 770-774

Contents:

Explaining general flood conditions and pictures of disaster on Connecticut River - P. 770
 Bridge Destruction - P. 771
 Flood runoff records - P. 771
 Table of precipitation during storm of Nov. 3-4 1927 - P. 773

NEW ENGLANDFLOOD CONTROLTitle: - D

Relation of Rainfall to Flood Runoff. - Col. C. R. Pettis,
 Corps of Engineers, U.S.A. - Military Engineer - vol. 28
 No. 158, March and April 1936 - P. 94

Contents:

Width formula for floods - P. 94
 Controlled flow - P. 95
 Typical Storm - P. 94
 Flood Waves - P. 94
 Runoff Hydrograph - P. 97

Title: - C, D

Report of the Committee on Floods - Journal B.S.C.E. vol. 17
 September 1930 - P. 293-460 incl.

Contents:

Giving a minute detail for flood of 1927 - Connecticut River -
 computations - formulas - curves, list of tables of rainfall,
 flood profiles, etc.

(Excellent paper)

Title: - C, D

Report of Committee on Floods - Jnl. B.S.C.E. - vol. 19 -
 December 1932 - P. 491

Contents:

Discussion on effect and prevention of floods by -
 X.H. Goodnough, Weber & Brooks, H.B. Kinnison, Am. Rwy. Eng.
 Assoc., Committee of Boston Society of Civil Engineers.

Title: - D, G

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 Bulletin - American Rwy. Eng. Assoc. - Vol. 30, August 1928
 P. 3-105 incl.

NEW ENGLANDFLOOD CONTROLContents:

Damage done by flood - maps graphs, curves, formulas, causes,
proposed preventive methods. - Discussion

(Excellent Paper)

Title: - C, D, E

Reservoir as a Flood Control Structure - George R. Clemens,
Trans. A.S.C.E., Vol. 100, 1935. - P. 879

Title: - C, D, E

Reservoir Storage above Spillway Level - H.K. Barrows -
Civil Engineering - vol. 3 - April 1933 - P. 233

Contents:

A detailed and graphic study of flood prevention - P. 233
Procedure to be followed - P. 233
Solution on basis of successive heights of water over the
spillway - P. 233

Title: - D, E

Runoff Figures in Vermont Flood reach high values -
H.B. Kinnison - Eng. News Rec. - vol. 100 - June 7, 1928 -
P. 890

Contents:

Results of measurements in the Winooski Valley reveal
unprecedented stream flow per unit of drainage area
P. 890

NEW ENGLANDFLOOD CONTROLTitle: - D, E

Some Aspects of N.E. Greatest Flood - John W. Shaver
Eng. News Rec. - Vol. 99 - Nov. 24, 1927 - P. 841-845 inc.

Contents:

General losses - P. 841
Rainfall and runoff - P. 841
Power storage and flood control - P. 843
Diagram and pictures showing havoc created by flood of
1927 on Connecticut River - P. 843
Deerfield River - P. 844
Table: 1927 flood discharge compared to highest previous
floods - P. 845 (on Connecticut River)

Title: - B

Suggested Storage Reservoirs - U.S. Army Engineers,
Single separate sheet filed with N.E.R.P.C.

Contents:

Ten suggested storage reservoirs, controlled area,
capacity and estimated cost.

Title: - C

Swamp and Overflowed Lands in the United States. - U.S.
Dept. of Agriculture Experimental Station, Circular #76,
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Title: - C, D, E

Weather - Map Story of the Flooding Rainstorm of
New England and Adjoining Regions - J.H. Weber and Charles F.
Brooks. Journal N.E.W.W. Assoc. Vol. 42. #1 -1927 - P. 91

Contents:

History of rainstorm of Nov. 1927 - P. 91
Detail of Storm by weather maps - P. 93

NEW ENGLANDNAVIGATIONContents: -(cont.)

River Stages - P. 10
General Detail of River such as:
 Necessary Channel depth - P. 18
 Terminal Facilities ~ P. 19
 Water Power - P. 20
 Advisability of improvements-P.22
Borings in Connecticut River between Hartford and
 Enfield Rapids - P. 47
Map of Connecticut River in Massachusetts and Connecticut,
Considerable Detail - 8 sheets.

NEW HAMPSHIREGENERAL

Title: - B.

State Planning - New Hampshire. 1935. Consultants Report.

Contents:

Drainage Areas - P. 23.
 Soil Groups Map -- Following P. 25.
 Geologic Map -- Following P. 25.
 Indigenous Forests Map -- Following P. 25.
 Population Distribution - P. 26, Maps following P. 30.
 Drainage Basins -- Maps Following P. 60.
 Water Supply and Sewage Disposal Systems -- Map following P. 60.
 Electric Utilities -- Map following P. 60.

Title: - B.

Towns and Cities within the Connecticut Valley
 Drainage Area - New Hampshire. - Three separate
 sheets filed in N. E. R. P. C.

Contents:

List of towns bordering on river.
 List of towns on headwaters and tributaries.
 List of towns within drainage area having slight
 interest in storage or pollution elimination projects.

NEW HAMPSHIRESURFACE WATERS

Title: - B.

Area of Water Bodies in the State of New Hampshire.
 New Hampshire State Planning Board, December 1, 1934.

Contents:

Totals for the state, listed by counties.
 Listed on basis of acreage within town
 lines.

NEW ENGLANDNAVIGATIONTitle:

An Economic Survey of Inland Waterway Transportation
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Title: - B

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2nd Session, 1935.

Title: - B

Connecticut Valley Waterway Board Report on an
Investigation of the Connecticut River, March 1913.

Contents:

Early History of the River and its Uses - P. 5-8
Surveys of the River - P. 8
River below Hartford - P. 9
River Between Hartford and Holyoke - P. 10-21
Distances of Various Points Above Mouth - P. 21-22
Effect of Floods Upon the River - P. 26-27
Power Projects - P. 32-40
Map of Connecticut River in Massachusetts and Connecticut -
Considerable Detail - 9 Sheets.

Title: C

Importance of Opening the Connecticut River to
Navigation from Hartford, Conn. to Holyoke,
Mass. Conn. River Navigation Assoc. 1898.
Contains report of Major Smith S. Leach. U.S. En-
gineer Corps, Nov. 13, 1897.

Contents:

Survey of River by Army Engineers and General
Data on Proposed Improvements.

NEW ENGLAND

NAVIGATION

Title: - C, D, E

Improvement of Navigation in Relation to Flood Control -
Stuart C. Godfrey - Trans A.S.C.E. - Vol. 93 - 1929 - P. 762

Contents:

Navigation and Flood Control - P. 762
Table showing Commercial Statistics - P. 765
Navigation in Relation to River Shortening - P. 779
Dredging and Flood Control - P. 781

Title: - D

Navigable Rivers of U. S. - Brig. General George Pillsbury. -
Military Engineer - Vol. 23 No. 128 - March and April 1931 -
P. 144

Contents:

General Statements:
How rivers become navigable
Flood Control
Federal Government supervision
P. 144-147

Title: - B

Parts of Southern New England, 1928. - U.S. Army
Engineers Report.

Title: - C

Reports on Preliminary Examination and Survey of
Connecticut River, between Hartford Conn., and Holyoke, Mass.
House Document #417. 64th Congress, 1915-1916

Contents:

Report of Board of Engineers on Rivers and Harbors - P. 3
Physical Characteristics - P. 7
River Discharge - P. 9

NEW HAMPSHIRESURFACE WATERSContents: (cont.)

Total acreage of ponds and lakes, as units.
 Total acreage of principal rivers within state
 lines.
 Total acreage of ponds and lakes as units ac-
 cording to elevation.

All data based upon planimeter studies of New
 Hampshire quadrangles, U.S.G.S. maps, scale 1/62,500.

Title: - B.

Conservation of Waters in New Hampshire. -
 Report by Metcalf & Eddy to Gov. Winant of
 New Hampshire.

Contents:

Studies include, for Connecticut River Basin:
 West Canaan project upon the Mascoma River -
 P. 51-57.
 Pittsburg project upon upper Connecticut
 River - P. 57-61.

Both include run-off data.

NEW HAMPSHIREPOLLUTIONTitle: - C.

Biennial Reports. - N. H. State Board of Health.

Title: - C.

"Health" Bulletins. - N. H. State Board of
 Health.

NEW HAMPSHIREPOLLUTIONTitle: - B.

Sanitary Condition of Ammonoosuc River above
Bethlehem and Probable Cost of Sewage Treat-
ment Required. - Report by Metcalf & Eddy,
Engineers, to Gov. Winant of New Hampshire
December 27, 1932.

Contents:

Stream Flow Records - P. 3-6.
Power Stations - P. 12.
Pollution Sources - P. 14-22.
Analyses of River Water - P. 23-33a.
Sewage Treatment Required - P. 34-49.

NEW HAMPSHIREWATER SUPPLYTitle: - L.

Probable Water Diversion Damages. - New
Hampshire Water Supply Co. - John R. Free-
man. May and August, 1914.

NEW HAMPSHIREWATER POWERTitle: - C.

New Hampshire Power, 1926. - New Hampshire
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NEW HAMPSHIREWATER POWER

Title: - B.

Report of Commission on Water Conservation and
Water Power, 1917-1918. - George B. Leighton.
State of New Hampshire, 1919.

Contents:

General Information - P. 5-15.
Legal Aspect of Water Storage - P. 22-27.
Reservoir Sites - P. 35-36.
Gaging Stations - P. 36.
Connecticut River Drainage Basin - P. 37.
 Storage in New Hampshire - P. 38.
 Storage in whole basin - P. 40.
 Upper Connecticut River Storage - P. 40.
 Upper Ammonoosuc River Storage - P. 43.
 Lower Ammonoosuc River Storage - P. 44.
 Miscellaneous Connecticut River Storage - P. 45.
 Mascoma River Storage - P. 46.
 Sugar River Storage - P. 48.
 Ashuelot River Storage - P. 50.
Undeveloped Water Powers on Connecticut
River - P. 110.
Undeveloped Water Powers on Connecticut
River Tributaries - P. 112.
Map of New Hampshire showing drainage areas,
reservoir sites and gaging stations in 1918.

Title: -

Report upon Power-Storage Regulation of Flow
of Connecticut River. Submitted by H. K. Barrows
to Prof. H. J. Lockwood, Consulting Engineer,
State of New Hampshire. - September 12, 1933.
(Being published - April 1936)

Contents:

A detailed report on power-storage regulations
of flow.

Title: - C.

Statistical Reports - N. H. Public Service Commission.

NEW HAMPSHIREFLOOD CONTROL

Title: - C.

New Hampshire Floods. - Articles in "New Hampshire Highways", State Highway Department.
Vol. 5, #9, November, 1927; Vol. 6, #1, April, 1928; Vol. 6, #2, May, 1928; Vol. 6, #6, September, 1928.

Title: -

Report upon Power-Storage of Flow of Connecticut River. - Submitted by H. K. Barrows to Prof. H. J. Lockwood, Consulting Engineer - State of New Hampshire - September 12, 1933 (Being published, April, 1936).

Contents: .

A detailed report on power-storage regulations of flow.

Title: - B.

Storage Power Projects in New Hampshire. - H. K. Barrows, Consulting Engineer, Report #3, September 20, 1933.

Contents:

Ashuelot River.- Russell Pond Control Study.
Sugar River - Stocker Pond Control Study.
Mascam River - West Canaan Control Study.
Ammonoosuc River - Bethlehem Junction Control Study.
Upper Ammonoosuc River - Phillips Bog Control Study.

VERMONTGENERALTitle: - C.

Lakes of Vermont, 1927. Vermont Bureau of
Publicity.

Title: - C.

Report on the Natural Resources of the State
of Vermont, 1912. - Vermont Commission of
Conservation.

VERMONTGEOLOGYTitle: - G

Vermont State Geology Report, #5.

Contents:

- Part III, Altitudes - P. 65-71
Geology of Orange County.
- Part IV, Hydrology of Vermont
Water Supply - P. 213
Wells - P. 219
- Part V, Drinking Waters of Vermont
Analysis - P. 257
Geology of North Eastern Vermont - P. 265
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Water Supply of Vermont - P. 254
- Part VI, Altitudes - P. 142
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- Part VIII, Connecticut River,
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Geology of Springfield - P. 108
Geology of Strafford - P. 122
Geology of Hanover - P. 108
- Part IX, Topographic Maps of Vermont - P. 371

VERMONTPRECIPITATIONTitle: - E

History of Newbury, Vermont.

Contents:

Account of David Johnson's Journal of meteorological data, 1800-on. - P. 258

VERMONTSURFACE WATERSTitle: - C, D, E, G

Surface Waters of Vermont. - C. H. Pierce.

U.S.G.S. Water Supply Paper #424, 1917.

Contents:

Connecticut River Basin - P. 110
 General Features - P. 110
 Gaging station records at Orford,
 New Hampshire. - P. 111
 Tables for daily, monthly discharge from
 September 1900 to 1916 inclusive - P. 112, 113
 Passumpsic River Basin - P. 117
 General Features - P. 117
 Passumpsic River at Pierce's Mills - P. 117
 Table of daily and monthly discharge for
 years 1909-1916 inclusive - P. 123, 124
 Passumpsic River at St. Johnsbury Centre - P. 124
 General Features - P. 124
 White River Basin - P. 124
 General Features - P. 124
 White River at Sharon, Vermont - P. 124
 Miscellaneous measurements - P. 125
 Tables of daily and monthly discharge for
 years (1903-1904) (1909-1914)
 White River at W. Hartford, Vermont - P. 130
 General Features - P. 130
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 Table of daily and monthly discharge for
 years 1912-1916 - P. 133
 Miscellaneous measurements - P. 134
 Convenient Equivalents - Formulas - P. 136

VERMONTPOLLUTIONTitle: - E

Normal Chlorine Map of Vermont. - C. P. Moat.
Vermont State Board of Health Bulletin #3,
vol. IV, March, 1904.

Contents:

Data compiled and map drawn for USGS by the
author.

Title: - B, G

Twenty-Ninth Report of the State Board of
Health, December 31, 1933.

Contents:

Chemical Analyses of Water Sources - P. 29-33

VERMONTWATER SUPPLYTitle: - C, D, E

Water Supplies of Vermont. - Charles P. Moat.
Journal NEWW Association Vol 37, #3,
September 1923, - P. 291.

Contents:

Summary - P. 291-292
Lists of towns and cities giving source of
supply and treatment - P. 292-294

VERMONTWATER POWERTitle: - C

Biennial Reports of Vermont Commission of
Industries.

Title: - B

Industrial Survey of Vermont 1930. - New
England Power Association.

Contents:

List of Electric Utilities now serving Vermont -
P. 28, 29

Title: - G

Special Report of Vermont Water Resources Com-
mission, 1921.

Contents:

Power Development of White River Basin.

VERMONTFLOOD CONTROLTitle: - B, C, G

Advisory Committee of Engineers on Flood Control.-
State of Vermont, Report of Consulting Engineer,
Professor H. K. Barrows, December 15, 1928.

Contents:

Drainage Areas of Rivers - P. 5
Maximum Rainfall - P. 6
Flood Flows - P. 10

VERMONTFLOOD CONTROLContents: (cont.)

White River Basin Control - P. 22-45
 Passumpsic River Basin Control - P. 130-148

(Excellent Studies)

Title: - B, C, G

Advisory Committee of Engineers on Flood Control.-
 State of Vermont, Report of Consulting Engineer,
 Professor H. K. Barrows, December 15, 1930.

Contents:

West River Basin Control - P. 84-106
 Williams River Basin Control - P. 107-117
 Black River Basin Control - P. 118-134
 Ottauquechee River Basin Control - P. 135-154
 Ompompanoosuc River Basin Control - P. 155-169
 Waits River Basin Control - P. 170-178
 Wells River Basin Control - P. 179-189
 Nulhegan River Basin Control - P. 190-198
 Deerfield River Basin - P. 217-221
 Connecticut River Use of Storage - P. 224-225

(Excellent Studies)

Title: - K

Gathering of Floods in Connecticut River System. - J. W. Goldthwait.

Title: - E

History of Springfield, Vermont. - Vol. 16

Contents:

Summary of Main Freshets and Floods occurring
 up to 1900. - P. 160

VERMONTFLOOD CONTROL

Title: - E

History of Springfield, Vermont. - Vol. 62

Contents:

Study of effect of forests and reservoirs on stream flow. - P. 245

Chart of high and low gage readings for 1844-1903 on Connecticut River at Springfield, Vermont.

Title: - C, G

Survey of Flood Damage - Official Record. -
U. S. Department of Agriculture - Vol 7,
#22, 1928.

Contents:

Reconnaissance Survey of damage done by flood in November 1927. - P. 8

MAPSCONNECTICUTSURFACE WATERSTitle: - B

Connecticut Watershed, Watershed Pollution and
Garbage, Industrial and Refuse Waste Dis-
posal.

N. E. R. P. C. Map No. 3-F-1.01 - 1" = 4 mi.

Title: - B

Watershed Pollution Study -- FERA Project
CPS-F2-90, December 1, 1934. Connecti-
cut State Planning Board.

1. Natural Watershed - Fig. C

CONNECTICUTGROUND WATERTitle: - C, D, E, G

Ground Water in the Hartford, Stamford, Salis-
bury, Willimantic and Saybrook Areas,
Connecticut. - H. E. Gregory and A. J. Ellis.
USGS Water Supply Paper #374, 1916.

1. Map of Hartford Area.

2. Map of Saybrook Area.

(Both maps show rock outcrops, wooded areas and
ground water conditions)

Title: - C, D, E, G

Ground Water in Meriden Area, Connecticut. -
Gerald A. Waring. USGS Water Supply Paper
#449, 1920.

Contents:

Maps of Meriden Area, Connecticut.

1. Glacial deposits, rock outcrops, and
location of typical wells and springs.

CONNECTICUTGROUND WATERContents: (cont.)

2. Bedrock Geology and structure sections.

3. Woodlands.

Title: - C, D, E, G

Ground Water in the Norwalk, Suffield and Glastonbury Areas - H. S. Palmer. USGS Water Supply Paper #470, 1920.

Contents:

Map of Connecticut showing physiographic divisions and areas. - P. 8

Topographic map of Norwalk area showing distribution of woodlands and locations of wells and springs cited. - in pocket.

Geologic map of Norwalk Area. - in pocket

" " " Suffield Area - in pocket

" " " Glastonbury Area - in pocket

Title: - C, D, E, G

Ground Water in the Southington-Granby Area, Connecticut. - Harold S. Palmer. USGS Water Supply Paper #466, 1921.

Contents:

Map of Connecticut showing physiographic divisions and areas covered by Water Supply Papers of USGS - in pocket.

Geologic map of Southington-Granby area - in pocket

Topographic map -- showing woodlands, wells and springs - in pocket

Title: - C, D, E, G

Ground Water in the Waterbury Area - Arthur J. Ellis. USGS Water Supply Paper #397, 1916.

Contents:

Map of Waterbury area. - in pocket

CONNECTICUT

POLLUTION

Title: - B

Connecticut River Watershed, Stream Condition Survey, September 1934. - New England Regional Planning Commission.

1. Waste Disposal - Incomplete - Fig. E
2. River Sections, Connecticut State Line to Willimansett Bridge - Low Water Volume. June 7, 1903 - Fig. H
3. Summary - Area, Population, Sewerage, etc. Incomplete. - Fig. J

Title: - B

Connecticut Watershed, Watershed Pollution and Garbage, Industrial and Refuse Waste Disposal.

N. E. R. P. C. Map No. 3-F-1.01 - 1" = 4 mi.

Title: - B

Map of Sewerage Systems and Pollution, Connecticut River Valley.

N. E. R. P. C. Map No. 3-F-11.02 - 1" = 8 mi.

Title: - B

Polluted Streams in Connecticut - Connecticut State Planning Board.

Scale 1" = 4 mi.

Title: - B

Watershed Pollution Study - FERA Project CPS-F2-90. December 1, 1934. Connecticut State Planning Board.

1. Polluted Streams and Kinds of Pollution - Fig. D
2. Waste Disposal - Fig. E

CONNECTICUTWATER SUPPLY

Title: - B

Watershed Pollution Study.- FERA Project CPS-F2-90.
December 1, 1934. Connecticut State Planning
Board.

1. Water Supplies - Fig F

CONNECTICUTNAVIGATION

Title: - B, C

Connecticut River Below Hartford, Connecticut.
Federal House Document #49 - Reports on
River and Harbor Act of July 3, 1930
dated December 22, 1932.

1. River below Hartford showing conditions
before alterations.

CONNECTICUTPOPULATION

Title: - B

Connecticut River Watershed - Stream Condition
Survey, September 1934. New England Regional
Planning Commission.

1. Population density per square mile
by townships, 1910. - Fig G_A
2. Same for 1930. - Fig G_B
3. Same estimated for 1940. - Fig G_C

CONNECTICUTPOPULATION

Title: - B

Watershed Pollution Study - FERA Project CPS-F2-90.
December 1, 1934. Connecticut State Planning
Board.

1. Population density per square mile,
by townships - Fig 155

MASSACHUSETTSGENERALTitle: -

Massachusetts, Town Lines, All Streams. -
Springfield Planning Board. - Scale 1"=3 mi.

MASSACHUSETTSGEOLOGYTitle: - C, D, E, G

Geology of Massachusetts and Rhode Island. -
B. K. Emerson, USGS Bulletin #597, 1917.

1. Map of Geologic Areas of Massachusetts and Rhode Island, 1916.

MASSACHUSETTSWATER POWERTitle: - C

Report of Commission of Waterways and Public
Lands on Water Resources of Massachusetts.
Massachusetts Senate Document #289, 1918.

1. Map of Storage and Power Studies on Millers River Watershed. - P. 96
2. Map of Storage and Power Studies on Westfield River Watershed. - P. 138
3. Map of Massachusetts Showing Location of Watershed Limits, Developed Water Powers and Undeveloped Reaches of Rivers. - At end of report.

Title: - B

Transmission Lines of Electric Companies Operated
at over 10,000 V. 1933. Massachusetts Department
of Public Utilities. - Scale 1"= 6 mi.

NEW ENGLAND

GENERAL

Title: - B

Average Length of Growing Season.
N. E. R. P. C. Maps Nos. 2-C-0.01,
2-C-0.02.
Scale 1"= 50 mi.

Title: - B

Connecticut River Drainage Basin. Con-
siderable detail.
N. E. R. P. C. Map Nos. 3-A-11.01,
3-A-11.02.
Scale, 11.01, 1"= 4 mi; 11.02, 1"= 8 mi.

Title: - B

Connecticut River Valley. - Outline of
Valley, State and County Lines, Major
Streams and Lakes.
N. E. R. P. C. Base Maps Nos. 9, 10, 11,
12, 13.
Scale: 9, 10, 1"= 4 mi; 11, 12, 13, 1"= 8 mi.

Title: -

Connecticut River Watershed Boundary and
Major Streams. - Springfield City Planning
Board.
Scale 1"= 12 mi.

Title: - B

Connecticut Valley Waterway Board Report on an
Investigation of the Connecticut River,
March 1913.

1. Map of Connecticut River in Massa-
chusetts and Connecticut - Consider-
able detail - nine sheets.

NEW ENGLANDGENERALTitle: - B

Forest Regions of New England.

N. E. R. P. C. Map No. 2-E-0.01.

Scale 1"= 50 mi.

Title: - B

General Distribution of Areas Subject to
Erosion in New England.

N. E. R. P. C. Map No. 2-B-0.06.

Scale 1"= 16 mi.

Title: - B

Larger Land Use Units of New England. -
General. Based on W. H. Manning Offices,
Inc. Map, 1918.

N. E. R. P. C. Map No. 2-A-0.06, 2-A-0.16.

Scale 1"= 8 mi.

Title: - B

Land Use Map of Connecticut Valley in Massa-
chusetts. - Prof. W. Elmer Ekblaw, Clark
University.

Title: - B

Major New England Soil Groups.

N. E. R. P. C. Map Nos. 2-A-0.07,
2-A-0.08 (negative 2-A-0.01) Scale

1"= 8 mi., 2-A-0.09, 2-A-0.10,

Scale 1"= 25 mi.

NEW ENGLAND

GENERAL

Title: - B

Mean Summer Temperature in New England.
N. E. R. P. C. Map No. 2-C-0.03. Small map.

Title: - B

Mean Winter Temperature in New England.
N. E. R. P. C. Map No. 2-C-0.04. Small map.

Title: - B

Mean Autumn Temperature in New England.
N. E. R. P. C. Map No. 2-C-0.05. Small map.

Title: - B

Mean Spring Temperature in New England.
N. E. R. P. C. Map No. 2-C-0.06. Small map.

Title: - B

Mountainous Areas.
N. E. R. P. C. Map No. 2-B-0.12.

Title: - B

Monthly Mean Temperature in New England.
N. E. R. P. C. Map No. 2-C-0.09. Chart.

Title: - B

Parks, Forests and Other Public Reservations.
N. E. R. P. C. Map No. 8-B-0.01
Scale 1" = 8 mi.

INDEXNEW ENGLANDGENERALTitle: - B

North Atlantic District Report Upon Water Resources
Part I. - H. K. Barrows, Consultant, dated August 31,
1934.

1. Climatology - Mean Temperature, Mean Relative Humidity, Mean Wind Velocity and Prevailing Direction. - Fig II-1.

Title: - B

Physiographic Regions of New England. :
N. E. R. P. C. Map No. 2-B-0.07.
Scale 1"= 50 mi.

Title: - B, C.

Proposed Connecticut River Valley Authority,
1935. - Massachusetts Department of Public
Health. :
Scale 1"= 8 mi.

Title: - B

Soil Erosion in New England. :
N. E. R. P. C. Map No 2-F-0.01.
Scale 1"= 8 mi.

Title: - B

Summer Temperature Averages. Areas of less
than 67°F indicated.
N. E. R. P. C. Map No. 2-C-0.11
Scale 1"= 50 mi.

NEW ENGLANDGENERAL

Title: -B

Wilderness Areas, 1930. Towns of less than 100 people.

N. E. R. P. C. Map No. 2-B-0.11
Scale 1"= 50 mi.

Title: - B

Winter Temperature Averages. Areas of less than 20°F indicated.

N. E. R. P. C. Map No. 2-C-0.10
Scale 1"= 50 mi.

NEW ENGLANDPRECIPITATION

Title: - B

North Atlantic District Report Upon Water Resources. Part I. - H. K. Barrows, Consultant, dated August 31, 1934.

1. Precipitation. - Mean annual for various stations. - Fig III-1
2. Precipitation. - Comparative monthly means, Fig. - III-5
3. Precipitation. - Isopluvials. - Fig III-6

Title: - B

Precipitation Isopluvials in New England.

N. E. R. P. C. Map Nos 3-A-0.09, 3-A-0.10
Scale 1"= 50 mi.

MAPSNEW ENGLANDSURFACE WATERSTitle: - B

North Atlantic District Report on Water Resources,
Part I. - H. K. Barrows, Consultant, dated August 31,
1934.

1. Runoff. - Mean annual for various stations,
Fig IV-1.
2. Runoff. - Isopluvials. - Fig IV-11

Title: - B

Principal Drainage Areas in New England.
N. E. R. P. C. Maps Nos. 3-A-0.02, 3-A-0.03,
3-A-0.08
Scales: 0.02, 1"= 8 mi; 0.03, 0.08, 1"= 25 mi.

NEW ENGLANDPOLLUTIONTitle: - B

Cities in Urgent Need of Sewerage Facilities.
N. E. R. P. C. Map No. 3-F-0.01
Scale 1"= 8 mi.

Title: - B

Municipal Sources of Pollution and Polluted
Streams in New England.
N. E. R. P. C. Map No. 3-F-0.02
Scale 1"= 8 mi.

NEW ENGLANDWATER SUPPLYTitle: - B

North Atlantic District Report on Water Resources
Part II. - H. K. Barrows, Consultant. Dated
October 1, 1934.

1. Public Water Supply.--Present Major Supplies - Fig. I-1.

NEW ENGLANDWATER POWERTitle: - B

North Atlantic District Report on Water Resources.
Part II.-H. K. Barrows, Consultant, dated
October 1, 1934.

1. Water Power -- Present Developments -- Fig. II-1.
2. Power Transmission Lines -- 66KV and over, Fig. II-5

Title: -B.

Report of the Associated Industries of Massachusetts
of its Power Investigating Committee, April 1924.

1. Capacity of Generators, in all New England Central Stations, January 1924 - Fig. 11.
2. New England Water Power, Jan. 1924 - Fig. 13.
Scale: 1" = 28 mi.
3. Power Transmission Lines - 66KV and over.
Fig. 22

MAPSNEW ENGLANDFLOOD CONTROLTitle: - B

Existing and Proposed Water Power Storage Reservoirs
in New England. N.E. R. P.C. Map No. 3-D-0.03.
Scale: 1"=25 mi.

Title: - B

North Atlantic District Report Upon Water Resources
Part II. H. K. Barrows, Consultant, dated Oct. 1, 1934.

1. Conservation by Storage — Existing and Proposed
(in this report) Reservoirs - Fig. IX-1. Similar
to N.E.R.P.C. map No. 3-D-0.03 above

NEW ENGLANDNAVIGATIONTitle: - B

Report of Preliminary Examination and Survey of Conn-
ecticut River Between Hartford, Conn., and Holyoke, Mass.,
House Document #417, 64th Congress, 1915-1916.

Contents

Connecticut River - Hartford, Conn. to Holyoke, Mass.

Plate I.

Showing proposed Hartford Dam and lock, Plate II.

" " Enfield " " " " III and IV.

Profile showing proposed improvement - Plate V.

NEW ENGLANDPOPULATIONTitle: - B

Births and Deaths in New England per 1000 population.
1920-1934. N.E.R.P.C. Map No. 4-B-0.18 Chart

NEW ENGLANDPOPULATIONTitle: - B

Cities and Towns of More than 10,000 - 1930.

N.E.R.P.C. Map Nos. 4-A-0.05, 4-A-0.12

Scales: 0.05, 1"=25 mi., 0.12, 1"=50 mi.

Title: - B

Distribution of Population In New England - 1930.

N.E.R.P.C. Map Nos. 4-A-0.06, 4-A-0.10

Scales: 0.06, 1"=8 mi., 0.10, 1"=45 mi. approx.

Title: - BPercent of Total Population Classed as Rural-Farm
and Rural-Non-Farm - 1930.

N.E.R.P.C. Map No. 4-A-0.13. Chart

Title: - BPercentage Increase or Decrease in Population
Density by Counties 1910-1920

N.E.R.P.C. Map No. 4-B-0.02

Scale: 1"=25 mi.

Title: - BPercentage Increase or Decrease in Population
Density by Counties 1900-1910.

N.E.R.P.C. Map No. 4-B-0.03

Scale: 1"=25 mi.

Title: - BPercentage Increase or Decrease in Population
Density by Counties 1890-1900

N.E.R.P.C. Map No. 4-B-0.04

Scale: 1"=25 mi.

NEW ENGLANDPOPULATIONTitle: -B

Percentage Increase or Decrease in Population

Density by Counties 1900-1930

N.E.R.P.C. Map No. 4-B-0.10 :

Scale: 1"=45 mi. approx.

Title: - B

Population Density of Counties in New England - 1930

N.E.R.P.C. Map Nos. 4-A-0.01, 4-A-0.09, 4-A-0.15

Scales: 0.01 & 0.09, 1"=25 mi., 0.15, 1"=50 mi.

Title: - B

Population Density of Counties in New England - 1920

N.E.R.P.C. Map No. 4-A-0.02

Scale: 1"=25 mi.

Title: - B

Population Density of Counties in New England - 1910

N.E.R.P.C. Map No. 4-A-0.03

Scale: 1"=25 mi.

Title: - B

Population Density of Counties in New England - 1900

N.E.R.P.C. Map Nos. 4-A-0.04, 4-A-0.17

Scales: 0.04, 1"=25 mi., 0.17, 1"=50 mi.

Title: - B

Population Gains by Towns in New England, 1920-1930

N.E.R.P.C. Map Nos. 4-B-0.01, 4-B-0.19

Scales: 0.01, 1"=25 mi., 0.19, 1"=50 mi.

NEW ENGLAND

POPULATION

Title: - B

Population Losses by Towns -- 1920-1930

H.E.R.P.C. Map Nos. 4-B-0.01, 4-B-0.15

Scales: 0.01, 1"=25 mi., 0.15, 1"=50 mi.

Title: - B

Population Trend in New England -- 1790-1960

H.E.R.P.C. Map No. 4-B-0.16. Chart

Title: - B

Rate of Increase of Population by Counties -- 1900-1930

H.E.R.P.C. Map Nos. 4-A-0.18, 4-B-0.05

Scales: 0.18, 1"=50 mi., 0.05, 1"=25 mi.

MAPSNEW HAMPSHIREGENERALTitle: - B

State Planning - New Hampshire, 1935. Con-
sultant's Report.

1. Soil Groups Map. - Following P. 25
2. Geologic Map - Following P. 25
3. Indigenous Forests Map - Following P. 25
4. Composite Land Use Map - Following P. 97

NEW HAMPSHIRESURFACE WATERSTitle: - B

State Planning - New Hampshire, 1935. Con-
sultant's Report.

1. Drainage Basins - Map following P. 60

NEW HAMPSHIREPOLLUTIONTitle: - B

Sources of Domestic and Industrial Pollution
in New Hampshire. - N. H. State Planning
Board.

Scale 1" = 8 mi.

NEW HAMPSHIREWATER SUPPLYTitle: - B

State Planning - New Hampshire, 1935. Consultant's
Report.

1. Water Supply of Cities and Towns, 1933 - Fol-
lowing P. 60

NEW HAMPSHIREWATER POWERTitle: - B

State Planning - New Hampshire, 1935. Consultant's Report.

1. Electric Utilities, 1934 - Following P. 60

Title: - B

Report of Commission on Water Conservation and Water Power, 1917-1918.-George B Leighton - State of New Hampshire, 1919.

1. Map of New Hampshire, Showing Drainage Areas, Reservoir Sites (mentioned in article) and Gaging Stations in 1918.

NEW HAMPSHIREPOPULATIONTitle: - B

State Planning - New Hampshire, 1935. Consultant's Report

1. Population by Townships, 1930 - Following P. 30
2. Population Distribution 1830-1880-1930. Following P. 30
3. Population Distribution. Estimated 1960 - Following P. 30

NEW HAMPSHIRESEWAGE DISPOSALTitle: - B

State Planning - New Hampshire, 1935. Consultant's Report.

1. Sewage Disposal Systems of Cities and Towns, 1933 - Following P. 60

MAPSVERMONTSURFACE WATERS

Title: - C, D, E, G

Surface Waters of Vermont - C.H. Pierce - USGS
Water Supply Papers #424, 1917

Contents:

Map of Vermont showing principle drainage basins
of gaging stations - in pocket
River Survey map of Mad and Waterbury Rivers - in pocket.
